

## PART TWO

# Final Exams 2019

28 Final Exams of some Schools Governorates.



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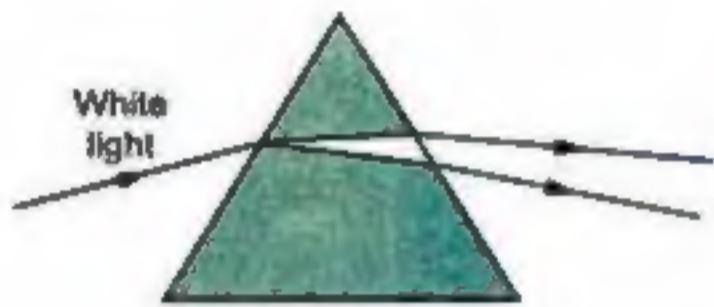
Cairo Governorate

Misr El-Gadida Educational Zone  
St. Joseph's School**Answer the following questions :****1 [A] Put (✓) or (✗) :**

1. Filtration is used to separate iron nails from sand. ( )
2. The balance of ecosystem occurs due to the interface of man. ( )
3. Yellow light colour is an example of primary colours. ( )
4. An electric current can be generated by using a magnet. ( )

**[B] Look at the opposite figure :**

1. What is the name of the device ?
2. Mention its function.

**[C] Give reasons for :**

1. Bilharzia worm is a parasite.
2. The moon is not considered as a source of light.

**2 [A] Write the scientific term :**

1. The disease caused by some types of mosquitoes and infects the man. ( ..... )
2. The natural area includes living organisms and non-living things. ( ..... )
3. A darkened area formed behind an object once light falls on it. ( ..... )
4. The instrument used to separate oil from water. ( ..... )

**[B] Choose the correct answer :**

1. Mixing blue light colour with red light colour produces ..... light colour.  
a. magenta                    b. cyan                    c. yellow
2. The food relationship between tiny aquatic organisms and sponge is an example of .....  
a. parasitism.                b. commensalism.            c. mutualism.
3. The parasite that causes anaemia to man is .....  
a. ascaris worm.            b. filaria worm.              c. liver worm.
4. The area around the magnet where magnetic force appears in it , .....  
a. magnetic poles.            b. magnetic field.            c. magnet.

**3 [A] Complete the following statements :**

1. The solution consists of ..... and .....
2. ..... and ..... are some ways of self-defence against predation.
3. ..... is used to pick up the huge blocks of iron, while ..... is used to generate electricity in bicycle.
4. Increasing ..... reduces solubility time, while we use ..... as a common solvent.

**[B] What is meant by ... ?**

1. Irregular reflection.
2. Solvent.

**[C] What happens when ... and give reasons ?**

1. You look at the spoon in a beaker contains water.
2. When the north pole of a magnet gets near to the north pole of another magnet.

**4 [A] Choose from column (B) what suits it in column (A) :**

(A)	(B)
1. External parasite as	a. a mixture.
2. Internal parasite as	b. a pure substance.
3. Distilled water is	c. liver worm.
4. Mineral water is	d. bug.

1. .... 2. .... 3. .... 4. ....

**[B] Complete the table :**

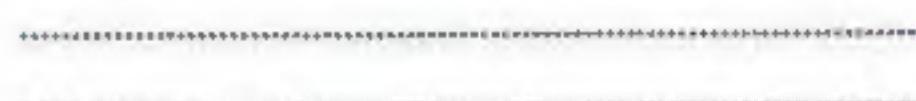
Points of comparison	Transparent material	Opaque material
1. Definition :	.....	.....
2. Examples :	.....	.....

## 2

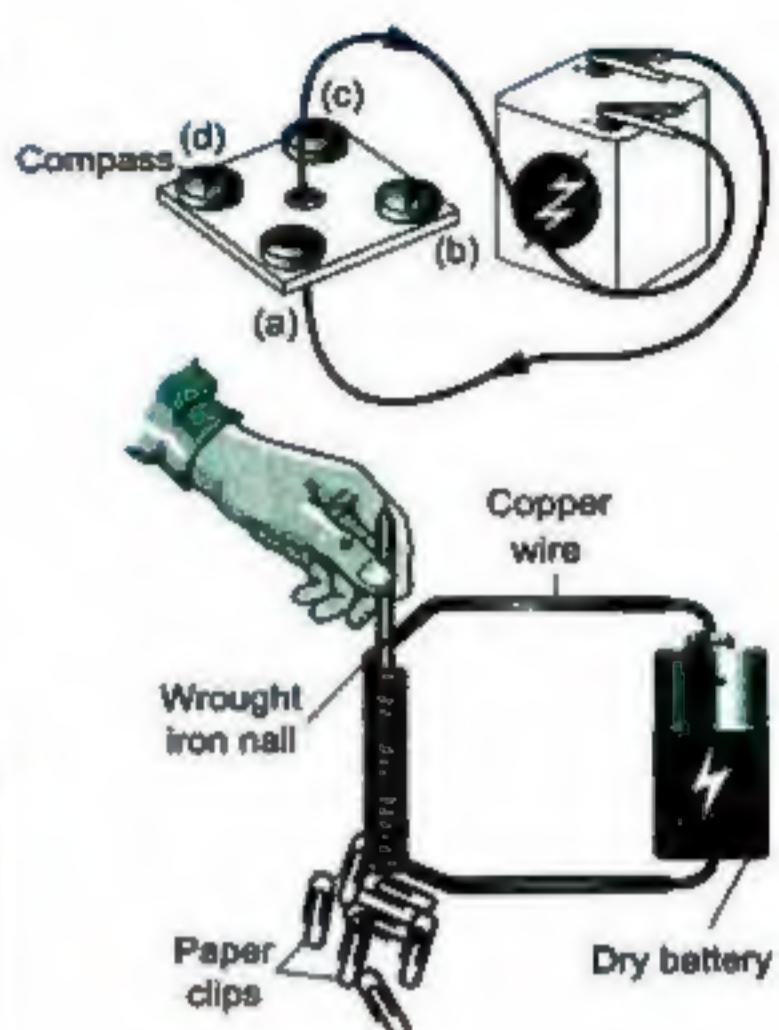
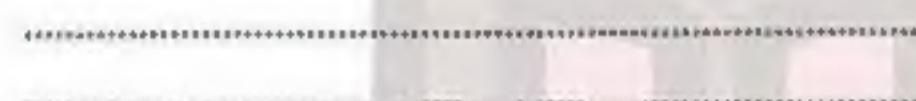
Part

## [C] What Is your observation and conclusion :

1. Put the wire beside the compass.



2. When approach the iron nail to paper clips.



## 2

Cairo Governorate

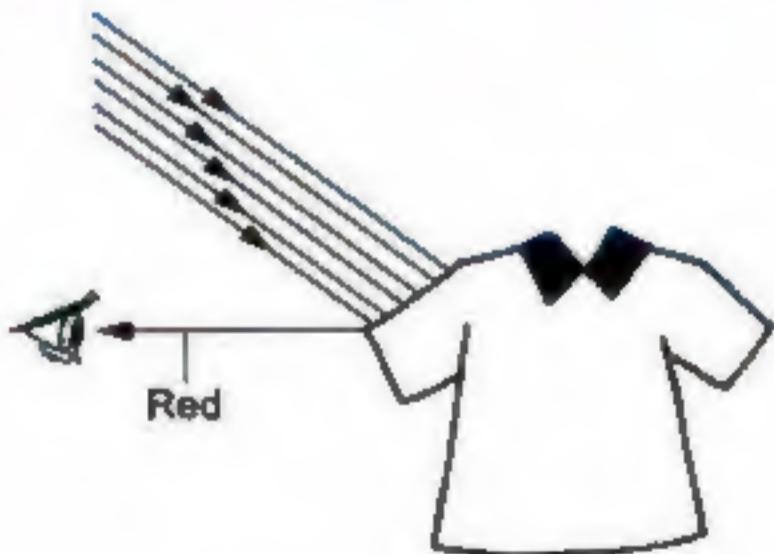
Al Maadi Educational directorate  
Manarat Al Maadi Language School

Answer the following questions :

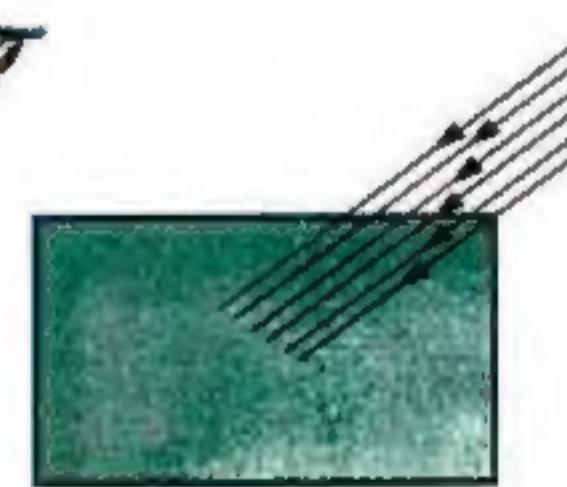
## I [A] Complete the following sentences :

- ..... and ..... are ways of mixing solid materials.
- Like magnetic poles ..... and dislike magnetic poles ..... each other.
- The filaria worm causes ..... disease, while fleas causes ..... disease.
- The electromagnet changes ..... energy into ..... energy.
- Camouflage is found in some living organisms such as ..... and .....
- Solubility process depends on ..... and .....

## [B] What is the colour of the body in each case :



(1) .....



(2) .....

**2 [A] Choose the correct answer :**

1. All the following are secondary coloured lights except .....  
a. yellow.      b. magenta.      c. blue.      d. cyan.
2. Salt solution is considered as ..... solution.  
a. homogeneous    b. heterogeneous    c. suspension    d. (a) and (c)
3. The devoured animal by another animal is known as the .....  
a. saprophyte.    b. parasite.    c. prey.    d. predator.
4. The image formed through narrow holes is .....  
a. minimized.    b. enlarged.    c. inverted.    d. (a) and (c).

**[B] Give reasons for :**

1. Formation of shadow.
2. Some plants are known as insectivorous plants.
3. Air is considered a mixture.
4. The spoon seems broken in a cup of water.

**3 [A] Write the scientific term of each of the following statements :**

1. A darkened area that is formed when light falls on an opaque object. ( ..... )
2. The natural area including living organisms and non-living things. ( ..... )
3. A device used to convert kinetic energy into electric energy. ( ..... )
4. A method used to separate iron objects from other solid substances in a mixture. ( ..... )

**[B] Mention one use for each of the following :**

1. Compass.
2. Separating funnel.
3. The electromagnet.
4. Glass prism.

**4 [A] Put (✓) or (✗) , then correct the wrong ones :**

1. Stirring increases the time of solubility.

(   )

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2  
Part

2. Image can be seen clearly behind carton. ( )
3. In mutualism, each organism gets benefit from the other. ( )
4. Cutting trees harms the environmental balance. ( )

**[B] What happens when .... ?**

1. Hanging a magnet and allow it to move freely.
2. Mixing the seven spectrum colours.
3. Decomposers disappear from an environment.
4. Heating salty water for a long time.

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Cairo Governorate

Eastern Nasr city Educational Zone  
Thebes Lang. School**Answer the following questions :****1 Complete :**

1. The basic idea of the dynamo is the changing of ..... energy into .....
2. The spectrum colours starts with ..... colour and ends with ..... colour.
3. ..... is a common solvent.
4. The relationship between sponge and tiny aquatic living organisms is .....
5. Like magnetic poles ..... each other, whereas dislike poles ..... each other.

**2 [A] Write the scientific term :**

1. A device used to locate the main four directions. ( ..... )
2. A darkened area formed behind an object once light falls on it. ( ..... )
3. The space around the magnet in which the magnetic force appears. ( ..... )
4. It is any natural area including living organisms and non-living things. ( ..... )
5. The seven colours of light which are formed in the sky during rainfall. ( ..... )

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**[B] Give reasons for :**

1. Wood is an opaque material.
  
2. Both milk and tomato sauce are mixtures.
  
3. Frogs undergo camouflage and change their colour.

**3 [A] Choose the correct answer :**

1. .... is used to separate water-oil mixture.
 

a. Filtration	b. Separating funnel	c. Evaporation
---------------	----------------------	----------------
  
2. Mixing blue light with red light produces ..... light.
 

a. cyan	b. yellow	c. magenta
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3. Mosquito causes ..... disease.
 

a. small pox	b. malaria	c. elephantiasis
--------------	------------	------------------
  
4. Plants which can't make their protein are called ..... plants.
 

a. prey	b. insectivorous	c. host
---------	------------------	---------
  
5. Light travels in ..... lines.
 

a. curved	b. broken	c. straight
-----------	-----------	-------------
  
6. By increasing the temperature of the solution, the speed of solubility .....
 

a. Increases.	b. decreases.	c. doesn't change.
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**[B] Put (✓) or (✗) In front of each of the following :**

1. Fungi that feed on the dead organisms bodies are called producers. ( )
  
2. The electric current has magnetic effect. ( )
  
3. The image which is formed through narrow holes is inverted. ( )
  
4. A mixture of salt and water can be separated by a magnet. ( )

**4 [A] Correct the underlined words :**

1. An electromagnet changes electric energy into kinetic energy. ( ..... )
  
2. Bilharzia and ascaris worms are external parasites. ( ..... )
  
3. An object seems black as it reflects all the light colours. ( ..... )
  
4. Light reflects regularly when it falls on the surface of a paper. ( ..... )
  
5. Salty solution is a heterogeneous mixture. ( ..... )

## 2

Part

## [B] What happens if ... ?

1. Hanging a magnet and allow it to move freely.
  
2. White light falls on a green object.

## [C] Compare between magnetic and non-magnetic materials :

Points of comparison	Magnetic materials	Non-magnetic materials
1. Definition :	.....	.....
2. Examples :	.....	.....

## 4

Cairo Governorate

East Nasr City Directorate  
Manaret Heliopolis Lang. School

Answer the following questions :

## 1 Complete the following sentences :

1. Light travels in ..... lines, and the light energy that can be seen is called the .....
2. The basic idea of the electric generator is the changing of ..... energy into ..... energy.
3. As the white light falls on a red apple, it absorbs ..... light colours and reflects ..... colour.
4. Predation is less common in ..... world than in ..... world.
5. In the salty solution ..... is the solute and ..... is the solvent.
6. Nodular bacteria benefit from bean plant by getting ..... which made by the plant during ..... process.
7. Bees which look like wasps undergo ..... phenomenon, while chameleons undergo ..... phenomenon.
8. Like magnetic poles ..... each other, whereas unlike poles ..... each other.

## 2 Write the scientific term of each of the following statements :

1. The main source of light on the Earth planet. ( .... )
2. A food relationship between two organisms that benefit from each other. ( .... )
3. Materials that things cannot be seen behind them. ( .... )

4. The natural area including living organisms and non-living things. ( ..... )
5. A darkened area which is formed as a result of light falling on an opaque object. ( ..... )
6. The change in the direction of light rays when it passes from a transparent medium to another transparent medium. ( ..... )
7. A common solvent in which thousands of substances dissolve in it. ( ..... )
8. The process by which a solute dissolves in a solvent leading to the disappearance of the solute. ( ..... )

**3 Choose the correct answer :**

1. ..... reflects all light colours fall on it.
 

a. White opaque object	b. Black opaque object
c. Red opaque object	d. Green opaque object
2. Atmospheric air is an example of ..... mixture.
 

a. gaseous-gaseous	b. compound
c. liquid	d. solid-liquid
3. The solubility time is decreased by ..... .
 

a. increasing the stirring process.	b. increasing the temperature.
c. increasing the amount of solvent.	d. all the previous.
- 4 All the following are primary light colours except ..... is secondary light colour.
 

a. yellow	b. green	c. blue	d. red
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5. We can see things as a result of ..... of light rays.
 

a. reflection	b. refraction	c. decompose	d. analysis
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6. From insect-eaters plants is ..... .
 

a. drosera.	b. mushroom.	c. bean.	d. banana.
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7. To separate sand from water by ..... .
 

a. filtration.	b. grinding.	c. shaking.	d. separating funnel.
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8. Mosquitoes cause ..... disease to man.
 

a. malaria	b. small pox	c. filaria	d. liver
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**4 [A] Give reasons for each of the following :**

1. The moon seems luminous although it is a dark body.
2. Both sugar and distilled water are considered as pure matter.

## 2

Part

## [B] Put (✓) or (✗) and correct the wrong ones :

1. A glass prism is used to separate white light into four spectrum colours. ( )
2. The magnet has three poles. ( )
3. The electromagnet is used for making electric bells and electric mixer. ( )
4. Green plants are called autotrophic organisms. ( )
5. Oil and water can be separated by a magnet. ( )
6. Bilharzia worm, tape worm and ascaris worm are external parasites. ( )

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Cairo Governorate

New Cairo Zone  
Manor House International School

Answer the following questions :

## 1 Complete the following :

1. ..... and ..... are from the factors that harm the environmental balance.
2. Parasitism may be ..... or .....
3. Dynamo changes the ..... energy into ..... energy.
4. The solution consists of ..... and .....
5. When we move a coil between two poles of a magnet ..... is generated in the coil.
6. The white board ..... all light colours, while the black board ..... all light colours.
7. Light reflects when it falls on a ..... , while it refracts when it passes from water to .....
8. The nearer object to the light source has the ..... shadow.

## 2 [A] Write the scientific term :

1. It's the returning back of light when it falls on a smooth and shiny object. ( ..... )
2. The liquid used to dissolve the solid substance. ( ..... )

3. The materials that are not attracted to the magnet. ( ..... )  
 4. A set that is used to detect the main four directions. ( ..... )

**[B] Mention one use for each of the following :**

1. Separating funnel.
2. Magnet.

**[C] What are the factors that keep the environmental balance ?**

**3 [A] Correct these statements :**

1. The magnetic field is the ability of magnet to attract the magnetic materials .
2. Rainbow is formed in the sky before raining.
3. Mixture of sugar in water is a heterogeneous mixture.
4. Light transmits in curved lines.

**[B] Choose from column (B) what suits it in column (A) :**

(A)	(B)
1. Spectrum colours	a. relationship between decomposer and dead body.
2. Magnetic field	b. like mirror.
3. Reflecting surface	c. the 7 colours which the sunlight are made up of.
4. Saprophytism	d. is a way to separate mixtures.
5. Filtration	e. it's the space around the magnet in which the magnetic force appears.

1. .... 2. .... 3. .... 4. .... 5. ....

2

Part

**4 [A] Give reasons for each of the following :**

1. We must increase the number of coil turns and use strong magnet in dynamo.
2. Water is considered as a common solvent.
3. Foil paper is an opaque material.
4. We must wear white clothes in summer.
5. Red, green and blue are primary light colours.

**[B] Choose the correct answer :**

1. In predation, the lion is
  - a. predator.
  - b. prey.
  - c. parasite.
2. When a magnet is suspended freely, it will point to
  - a. north.
  - b. south.
  - c. north and south.
3. Mixing green and blue gives
  - a. magnets.
  - b. yellow.
  - c. cyan.

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Cairo Governorate

El Zietoun Educational Administration  
Gomhouria Language School**Answer the following questions :****1 [A] Complete the following sentences :**

1. The image formed through narrow holes is ..... and .....
2. Like magnetic poles ....., whereas unlike poles ..... each other.
3. ..... and ..... are from saprophytic organisms.
4. The scientific idea of dynamo depends on the conversion of the ..... energy into ..... energy.

**[B] Give one use for each of the following :**

1. Compass.
2. The electromagnet.
3. Glass prism.
4. Separating funnel.

**2 [A] Write the scientific term of each of the following statements :**

1. The materials which you can see objects clearly behind them. ( ..... )
2. A natural area including living organisms and non-living things. ( ..... )
3. The space around the magnet in which its magnetic properties appear. ( ..... )
4. It consists of a solute and a solvent. ( ..... )

**[B] What happens if ... ?**

1. Heating salty water for a long time.
2. Light falls on a shiny surface.
3. Using strong magnet in the dynamo.
4. Saprophytes (decomposers) disappear from the Earth.

**3 [A] Give reasons for each of the following :**

1. Water is called a common solvent.
2. The spoon seems broken in a cup of water.
3. Drosera and dionaea are known as insectivorous plants.
4. The electromagnet is considered as a temporary magnet.

**[B] Show how you can separate the following mixtures :**

1. Sugar solution.
2. Sand solution.

**[C] What is meant by each of the following ... ?**

1. Secondary coloured lights.
2. Pure substance.

## 2

Part

## 4 [A] Choose the correct answer :

1. Mixing red, green, and blue lights gives ..... light.  
a. magenta      b. cyan      c. white
2. Temperature ..... the solubility time.  
a. decreases      b. increases      c. doesn't affect
3. Green plants are considered as ..... organisms.  
a. decomposer      b. producer      c. consumer
4. When the magnet hanged freely, it will take ..... direction.  
a. north-west      b. north-east  
c. north-south      d. east-south
5. Filaria worm causes ..... disease.  
a. malaria      b. elephantiasis      c. small pox

## [B] Correct the underlined words in each of the following statements :

1. The red apple seems red, because it absorbs the red colour. ( ..... )
2. Vegetable salad and milk are pure substances. ( ..... )
3. Dissolving carbon dioxide gas in a sugar solution forms mineral water. ( ..... )

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Giza Governorate

Haram Educational Zone  
Sakkara Language School

Answer the following questions :

## 1 Complete using the following words :

( refracts - poles - grinding - electric - shaking - mechanical - transparent - saprophytic )

1. The magnetic force is most powerful at the two ..... of the magnet.
2. The light ..... when it transfers from a transparent medium to another.
3. The dynamo is used to convert the ..... energy into ..... energy.
4. ..... and ..... are ways of mixing solid materials.
5. Fungi are considered as ..... living organisms.
6. The materials that objects can be seen through them are called ..... materials.

## 2 Choose the correct answer :

1. The process of photosynthesis is made by ..... organisms.  
a. producer      b. consumer      c. decomposer
2. When a magnet is hanged freely its north pole refers to the ..... direction.  
a. east      b. north      c. south

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3. Predation acts to ..... the number of preys.  
a. organize                    b. increase                    c. decrease

4. Natural magnet is one of the ..... ores.  
a. iron                        b. wood                        c. copper

5. The substance which dissolves in the solvent is called .....  
a. solution.                    b. mixture.                    c. solute.

6. .... takes place by living organisms to hide from their enemies.  
a. Commensalism              b. Parasitism                    c. Camouflage

7. Which of the following is considered as a secondary light colour ? .....  
a. Yellow.                    b. Green.                        c. Blue.

8. ..... is a magnetic material.  
a. Iron                        b. Aluminium                    c. Copper

**3 Put (✓) or (✗):**

1. Fungi are feeding on dead organisms' bodies are called saprophytes. ( )

2. Solubility speed decreases by shaking and rising the temperature. ( )

3. The carton paper is an opaque material. ( )

4. The magnet has three poles. ( )

5. Predation is a temporary relationship between predator and prey. ( )

6. The green table reflects all light colours. ( )

7. The main source of light on the Earth's surface is electric bulb. ( )

8. The unlike magnetic poles repel and the like poles attract. ( )

**4** [A] Write the scientific term of each of the following statements :

1. The energy that we can see. (.....)

2. The material in which the solute disappears in it. (.....)

3. An area around the magnet in which its magnetic force appears. (.....)

4. Food relationship between organisms get their food by devouring other organisms. (.....)

5. The relationship between two living organisms that benefit from each other. (.....)

6. Living organisms which decompose dead organisms. (.....)

**[B] Give reasons for :**

1. Some materials are magnetic.

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  2. Predation is not common in plants.

**Answer the following questions :**

**1 Choose the correct answer :**

1. A pencil seems as it broken in a cup of water due to ..... of light.  
 a. refraction      b. absorbtion      c. reflection
2. The living organism that devours another living organism is .....  
 a. host.      b. predator.      c. saprophyte.
3. The pure substance like .....  
 a. fruit salad.      b. sugar.      c. apple juice.
4. White opaque object ..... all light colours.  
 a. absorbs      b. reflects      c. transmits
5. The ..... changes the electric energy into magnetic energy.  
 a. dynamo      b. electromagnet      c. compass
6. The ..... is used to separate the white light into 7 spectrum colours.  
 a. glass prism      b. compass      c. dynamo
7. Light can't be transmitted through ..... materials.  
 a. transparent      b. translucent      c. opaque
8. The mixing of red , blue and green producing ..... colour.  
 a. magenta      b. green      c. white

**2 [A] Write the scientific term of each of the following statements :**

1. The substance which dissolves in the solvent. ( ..... )
2. The relationship between cat and rat. ( ..... )
3. The returning back of light when it falls on a surface. ( ..... )
4. Materials that are attracted to the magnet. ( ..... )
5. Any natural area contains living organisms and non-living things. ( ..... )

**[B] Circle the odd word :**

1. Red - Magenta - Blue - Green. ( ..... )
2. Stirring - Filtration - Shaking - Grinding. ( ..... )
3. Mushroom - Fish - Penecillium - Bread mold fungus. ( ..... )

## 3 [A] Give reasons for :

1. Air is considered a mixture.
2. Water is a common solvent.
3. Predation is a temporary relationship.

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## [B] Correct the underlined words :

1. Chameleon undergoes mimicry. ( ..... )
2. Banana seems yellow when it is seen through blue glass sheet. ( ..... )
3. Shadow is formed by falling light on a transparent object. ( ..... )
4. Dynamo is fixed at the seat of the bicycle. ( ..... )
5. Sand and water can be separated by evaporation. ( ..... )

## 4 Complete the following :

1. .... + ..... → Solution.
2. .... + ..... → Cyan.
3. Predation is less common in ..... world than that in ..... world.
4. The ..... poles attract, while the ..... poles repel.

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Giza Governorate

6 of October Directorate  
Sun Gate Language School

Answer the following questions :

## 1 Choose the correct answer :

1. The relationship between bilharzia worm and man is .....  
 a. predation.      b. commensalism.      c. parasitism.
2. ..... formed by mixing red and green.  
 a. Yellow      b. Cyan      c. Magenta
3. Distilled water is a .....  
 a. mixture.      b. pure substance.      c. solution.
4. Chameleon tends to make .....  
 a. mimicry.      b. camouflage.      c. symbiosis.
5. The ..... changes kinetic energy into electric energy.  
 a. electromagnet      b. dynamo      c. motor
6. ..... opaque object reflects blue colour.  
 a. Black      b. White      c. Blue

## 2

Part

7. .... organizes the number of prey's population.
- Predation
  - Saprophytism
  - Mutualism
8. Magnetic material like .....
- plastic.
  - copper.
  - cobalt.

**2 [A] Write the scientific term of each of the following statements :**

- The returning back of light rays when it falls on a surface. ( .... )
- The balance among the components of ecosystem. ( .... )
- The colours that impossible to be produced by mixing two other colours. ( .... )
- A substance which dissolves in a solvent. ( .... )
- The ability of a magnet to attract magnetic materials in its field. ( .... )

**[B] Give reasons for :**

- Water is a common solvent.
- Predation is less common in plant world.
- North pole attracts to south pole and repel with north pole.

**3 [A] Mention one function of :**

- Compass.
- Separating funnel.
- Glass prism.
- Magnet.

**[B] Complete the following sentences :**

- The components of ecosystem are ..... and .....
- ..... + ..... → Solution.
- Lion is a ....., while deer is a .....
- ..... object absorbs all light colours, while ..... object reflects all light colours.

## 4 [A] Circle the odd word :

1. Yellow - Green - Cyan - Magenta. (.....)
2. Wood - Plastic - Iron - Glass. (.....)
3. Fleas - ascaris worm - Tape worm - Bilharzia worm. (.....)
4. Air - Clear water - Frosted glass - Glass. (.....)

## [B] Put (✓) or (✗) with correction :

1. Temperature increases the solubility speed. ( )
2. Soda water is a solid-liquid mixture. ( )
3. Mosquito causes anaemia disease. ( )
4. Light travels in straight lines. ( )

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Giza Governorate

Omrania Zone  
Moharram Islamic Language School

Answer the following questions :

## 1 [A] Write the scientific term of each of the following statements :

1. A set used to separate oil-water mixture. (.....)
2. It is the substance that consists of more than one type of particles. (.....)
3. The food relationship in which one living organism devours another one. (.....)
4. A device used to convert kinetic energy into electric energy. (.....)

## [B] Give reasons for :

1. Drosera is insect-eater plant.
2. Air is transparent while rock is opaque material.

## 2 [A] Put (✓) or (✗) :

1. Red, green and blue are secondary coloured lights. ( )
2. Benzene is a common solvent. ( )
3. Green table reflects all light colours. ( )
4. Fungi which feed on dead bodies are called saprophytes. ( )

2

Part

## [B] Choose the correct answer :

1. All the following are methods to form mixtures except .....  
 a. shaking.      b. grinding.      c. stirring.      d. evaporation.
2. Mixing blue and green lights gives ..... light.  
 a. yellow      b. cyan      c. magenta      d. red
3. The speed of light in air is ..... that in water.  
 a. faster than      b. equal to      c. half      d. (a) and (c)
4. All the following are magnetic materials except .....  
 a. aluminium.      b. iron.      c. steel.      d. nickel.

## 3 Complete the following :

1. The ecosystem may be small as ..... or large as .....
2. White light separates into ..... colours which are called .....
3. We wear dark clothes in ....., while white clothes in .....
4. Distilled water is ....., while mineral water is .....

## 4 [A] Choose from column (B) what suits it in column (A) :

(A)	(B)
1. Mutualism	a. takes place between man and tape worms.
2. Predation	b. takes place between nodular bacteria and bean plant.
3. Commensalism	c. takes place between cat and rat.
4. Parasitism	d. takes place between sponge and the tiny aquatic organisms.

1. .... 2. .... 3. .... 4. ....

## [B] Mention the function of :

1. Compass :

.....

2. The electromagnet :

.....



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11

Alexandria Governorate

Franciscan Sisters School Ibrahimieh

**Answer the following questions :****1 [A] Complete the following sentences :**

1. The scientific idea of the electromagnet depends on the conversion of the ..... energy into ..... energy.
2. Liquid mixtures can be formed by ..... or .....
3. Some autotrophic plants have to prey insects to get their required elements for making .....
4. Matter can be divided into ..... and ..... due to their magnetic attraction.
5. Light ..... when it transfers between two different transparent media.

**[B] Give reasons for the following :**

1. The box of the compass isn't made from iron.
2. White light can be separated.
3. The red apple is seen red through the red glass sheet.
4. A mixture of salt and water isn't separated by filtration process.

**2 [A] Which of the following processes takes place faster than the other and why ?**

1. Dissolving of a quantity of salt in 100 ml. of water  
or dissolving of the same quantity of salt in 300 ml. of water.
2. Dissolving of sugar grains or cubes in water.

**[B] Write the scientific term :**

1. The space around the magnet in which the effect of magnetic force appears. ( ..... )
2. The process that needs the presence of solvent and solute. ( ..... )
3. Materials that objects can't be seen through them. ( ..... )
4. The balance among the components of the ecosystem. ( ..... )

2

Part

## [C] Correct the underlined words :

1. Decreasing the temperature doesn't change solubility speed. ( ..... )
2. The compass is used in making electric bell. ( ..... )
3. Table salt is collected by filtration process. ( ..... )
4. Aluminium gets attracted to the magnet. ( ..... )

## 3 [A] What happens when ... ?

1. Passing of an electric current in a wire wrapped around a rod of soft iron.
2. Mixing the red light with the green light.
3. When a magnet is hanged freely to move.
4. You look at a picture through a glass sheet.

## [B] Put (✓) or (✗) and correct the mistakes :

1. The white paper absorbs all light colours that fall on its surface. ( )
2. Ecosystem is composed of non-living things like water and living organisms like plants. ( )
3. Like magnetic poles attract, while dislike poles repel each other. ( )
4. Distilled water is a mixture of minerals and water. ( )

## 4 [A] Mention the difference between each of the following :

1. Predator and prey.
2. Homogeneous mixtures and heterogeneous mixtures.
3. The way of self-defence in some bees and in frogs.

4. Regular reflection and irregular reflection.

**[B] Mention the kind of food relationship between each of the following :**

1. Nodular bacteria and bean plant.
2. Fungi and bread.

( ..... )  
( ..... )

**[C] Choose the correct answer :**

1. The solvent in the sugary solution is .....  
a. water.      b. sugar.      c. non of the following.
2. ..... is used to measure the electric current intensity.  
a. Compass      b. Ammeter      c. Dynamo
3. Translucent materials have the same colour they .....  
a. permit.      b. reflect.      c. refract.
4. ..... is made up of only one type of identical particles.  
a. Milk      b. Mineral water      c. Sugar

12

Alexandria Governorate

Saint Vincent De Paul School

**Answer the following questions :**

**1 [A] Choose the correct answer :**

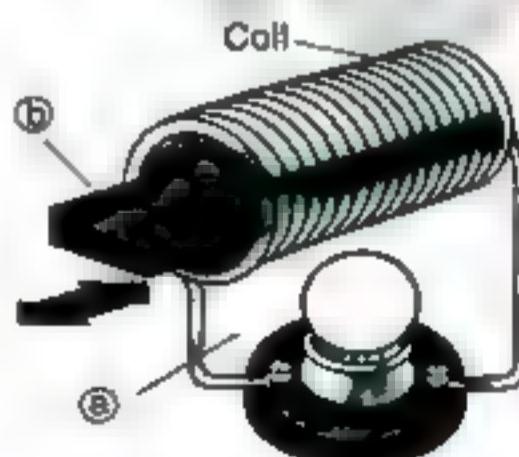
1. All the following colours are primary lights except .....  
a. yellow.      b. green.      c. blue.      d. red.
2. The natural magnet is one of the ..... ores.  
a. copper      b. aluminium      c. iron      d. carbon
3. All the following substances are non-magnetic except .....  
a. copper.      b. aluminium.      c. cobalt.      d. plastic.
4. Salty solution is considered a ..... mixture.  
a. homogeneous      b. complex      c. heterogeneous
5. The coil of the dynamo is made up of .....  
a. carbon.      b. copper.      c. aluminium.      d. plastic.

**[B] Look at the opposite figure, then answer the following :**

1. The figure represents

2. Write the name of parts (a) and (b).

(a)  
(b)



79

2

Part

## 2 [A] Complete the following sentences :

1. We can separate sand from salt solution mixture by ..... .
2. ..... + ..... → Solution
3. The light ..... when it transfers between two transparent media.
4. Mosquitoes infect man with ..... but ..... infect man with small pox.
5. The greatest ..... is concentrated at the poles of the magnet.

## [B] Choose from column (B) what suits it in column (A) :

(A)	(B)
1. Cat and rat	a. solid-solid mixture.
2. Fruit salad	b. internal parasite.
3. Filaria worm	c. gas-liquid mixture.
4. Salt and water	d. predation.
5. Carbon dioxide and sugar solution	e. liquid-liquid mixture.
6. Ascaris worm.	f. elephantiasis.
	g. solid-liquid mixture.

1. ....
2. ....
3. ....
4. ....
5. ....
6. ....

## [C] Cross out the odd word in each of the following :

1. Tiger - Rabbit - Lion. (.....)
2. Salt solution - Milk - Sugar - Tomato sauce. (.....)
3. Iron - Wood - Plastic - Aluminium. (.....)

## 3 [A] Write the scientific term :

1. The area around the magnet in which the magnetic force appears. (.....)
2. A darkened area formed when light falls on an opaque object. (.....)
3. A phenomenon in which living organisms change their colour to be hidden from enemies. (.....)
4. Plants that devour insects. (.....)
5. A device which is used to convert the electric energy into magnetic energy. (.....)

80



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**[B] Give reasons for :**

1. We see the paper of the book white.
  
2. The glass is a non-magnetic substance.
  
3. The pencil seems to be broken in a cup of water.

**[A] Put (✓) or (✗) and correct the false sentences :**

1. An electric current can be generated by using a magnet. ( )
  
2. Objects are seen less clearly through transparent materials. ( )
  
3. Plants are the main sources of food on the Earth. ( )
  
4. Green table reflects all colour lights. ( )
  
5. Solubility speed decreases by shaking. ( )

**[B] What happens when ... ?**

1. White light passes through a glass prism.
  
2. Heating salty water for a long time.
  
3. You approach the north pole of a magnet to the south pole of another magnet.
  
4. There is no nodular bacteria in roots of leguminous plants as beans.

**[C] Mention the importance for each of the following :**

1. Compass.
  
2. Separating funnel.

13

Alexandria Governorate

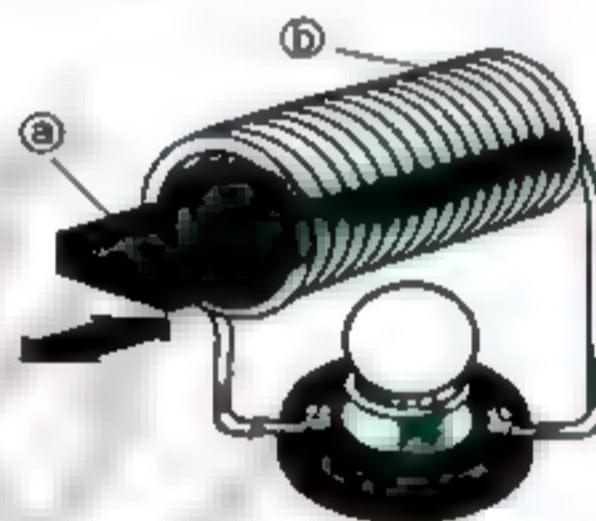
Montaza Educational Zone

**Answer the following questions :****1 [A] Choose the correct answer :**

1. The relationship between a cat and a rat is considered as an example of ..... relationship.
  - a. predation
  - b. mutualism
  - c. parasitism
2. If you look at a yellow banana through a green glass sheet it seems ..... .
  - a. yellow.
  - b. green.
  - c. black.
3. Cyan, yellow and magenta lights are ..... lights.
  - a. complementary
  - b. secondary
  - c. primary
4. ..... can change its colour to be hidden from its enemies.
  - a. Frog
  - b. Ascaris worm
  - c. Bee
5. ..... is a magnetic material.
  - a. Copper
  - b. Iron
  - c. Paper

**[B] Look at the opposite figure, then answer the following :**

1. The symbol (a) indicates ..... and the symbol (b) indicates .....
2. When (a) moves inside (b) ..... must be generated.

**2 [A] Complete the following sentences :**

1. ..... light is produced by mixing all spectrum colours.
2. The solution consists of ..... and .....
3. Green plants are considered as ..... organisms.
4. ..... worms cause elephantiasis disease.

**[B] Write the scientific term :**

1. The natural area including living organisms and non-living things. ( ..... )
2. A darkened area formed behind an object once light falls on it. ( ..... )
3. The reflection of light on a smooth reflecting surface. ( ..... )

**3 [A]** Put (✓) or (✗) in front of each one and then correct the wrong one :

1. Components of the mixture lose their properties. ( )
2. Light refracts when it passes from air to water. ( )
3. Filtration is used to separate oil-water mixture. ( )
4. The carton is an opaque material. ( )

**[B]** Fill each space by a kind of food relationships from between brackets :

( Saprophytism - Mutualism - Commensalism )

1. Nodular bacteria and bean plant. ( ..... )
2. Fungi and dead organisms. ( ..... )
3. Sponge and tiny aquatic living organisms. ( ..... )

**4 [A]** Give reasons for :

1. Water is called a common solvent.
2. The formation of images through narrow holes.
3. Copper and aluminium are non-magnetic materials.

**[B]** Choose from column (B) what suits it in column (A) :

(A)	(B)
1. Stirring	a. the solubility time decreases.
2. Evaporation	b. to get its required elements for making protein.
3. By increasing the temperature	c. magnetite.
4. Dionaea plant preys insects	d. is used to collect table salt from salt pans.
5. Natural magnet is a black stone called	e. increases the speed of solubility.

1. ....
2. ....
3. ....
4. ....
5. ....

2

Part

14

Alexandria Governorate

East Zone Directorate  
Taymour English Schools**Answer the following questions :****1 [A] Complete the following sentences :**

1. When light falls on a leaf, it makes ..... reflection.
2. Increasing the number of coil turns increases ..... of the electromagnet.
3. Water is called ..... as thousands of substances can dissolve in it.
4. Banana appears yellow because it ..... all light colours except ..... which is .....
5. Similar magnetic poles ..... while opposite poles ..... each other.
6. ..... can simulates the colour of the surrounding environment and it is a good example for .....

**[B] Mention one function for :**

1. Glass prism.
2. Sponge for tiny aquatic living organisms.

**2 [A] Write the effect of the following on the solubility process :**

1. Using low temperature.
2. Shaking.
3. Increasing the amount of solute.

**[B] Correct the underlined words in each of the following statements :**

1. Refraction of light depends on the type of light. ( .... )
2. Blue, green and yellow are primary coloured lights. ( .... )
3. Insectivorous plants need fats and carbohydrates. ( .... )
4. The dynamo changes heat energy into electric energy. ( .... )

**3 [A] Give reasons for :**

1. We cannot distinguish between particles of vinegar and water.

2. Compass is used inside planes.

**[B] Write the scientific term :**

1. Any natural area including living organisms and non-living things. ( ..... )
2. The materials that are not attracted to the magnet. ( ..... )
3. The separation method of a mixture of salt and water. ( ..... )
4. The food relationship between tiger and deer. ( ..... )
5. It is a darkened area which is formed when light falls on an opaque object. ( ..... )

**4 [A] What happens when ... ?**

1. Man is infected with ascaris worm.
2. You put some iron filings near the center of a magnet and some near to the ends.

**[B] Choose the correct answer :**

1. Light that can be seen is called .....
  - a. visible spectrum.
  - b. infrared.
  - c. ultraviolet
  - d. all the previous.
2. .... is a semi-transparent material.
  - a. Glass
  - b. Water
  - c. Tissue paper
  - d. Mirror
3. The food relationship between beans and nodular bacteria is .....
  - a. commensalism.
  - b. parasitism.
  - c. mutualism.
  - d. saprophytism.

15

Qaliubya Governorate

Obour Educational Directorate  
Resala Language School

**Answer the following questions :**

**[A] Complete the following sentences :**

1. The dynamo (electric generator) changes ..... energy into ..... energy.

85



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## 2

Part

2. On mixing all the primary light colours (red + blue + green), the ..... colour light is produced.
3. In sugary solution, sugar is the ..... , while ..... is the solvent.
4. .... and grinding are the ways of mixture formation.
5. The relationship between a cat and a rat is an example of .....
6. Like magnetic poles ..... , while dislike poles ..... each other.
7. The spectrum colours starts with ..... and ends with .....
8. There are two types of light reflection ..... and .....

**[B] What happens when ... ?**

1. You approach the north pole of a magnet to the south pole of another magnet.
2. Predators disappear from an environment including few rabbits.

**2 [A] Write the scientific term of each of the following statements :**

1. A natural area contains living organisms and non-living things. ( ..... )
2. The space around the magnet in which the magnetic force appears. ( ..... )
3. A darkened area which is formed as a result of light falling on an opaque body. ( ..... )
4. A food relationship in which saprophytes get their food by decomposing food remains or dead organisms bodies. ( ..... )
5. A substance that consists of more than one type of particles. ( ..... )
6. The substance that disappears in the solvent. ( ..... )

**[B] Give reasons for each of the following :**

1. Iron and cobalt are magnetic materials.
2. Water is considered as a common solvent.

**3 [A] Choose the correct answer :**

1. ..... is the main source of light.  
a. Lightened candle      b. The Sun      c. The moon      d. Torch
2. ..... is attracted to the magnet.  
a. Wood      b. Chalk      c. Iron      d. (b) and (c)

3. Predation acts to ..... the number of preys.
- organize
  - increase
  - decrease
  - no correct answer
4. The natural magnet is one of the ..... ores.
- iron
  - steel
  - carbon
  - cobalt
5. The electromagnet changes ..... energy into magnetic energy.
- thermal
  - sound
  - light
  - electric
6. ..... occurs by some living organisms to hide from enemies.
- Commensalism
  - Parasitism
  - Camouflage
  - No correct answer

[B] Choose from column (B) what suits it in column (A) :

(A)	(B)
1. Rock	a. can be separated by separating funnel.
2. Cyan	b. causes elephantiasis.
3. Filaria worm	c. is an opaque material.
4. Oil and water mixture	d. consists of blue and green lights.

1. .....      2. .....      3. .....      4. .....

4 [A] Put (✓) or (✗) :

- A mixture of sand and water can be separated by filtration process. ( )
- The magnet has four poles. ( )
- Stirring increases solubility time and decreases the speed of solubility process. ( )
- Ecosystem may be very large like universe. ( )
- Insect-eaters plants are plants that prey small insects to make carbohydrates. ( )
- Spiders use their woven nets for catching insects. ( )

[B] Classify the following into predator, parasite or decomposer :

( Lion - Mushroom - Mosquito - Shark - Bread mold fungus - Lice )

1. Predator :

2

Part

2. Parasite :

3. Decomposer :

16

El-Sharkia Governorate

Science Inspectorate

**Answer the following questions :****1 Complete the following sentences :**

1. Like magnetic poles ..... and unlike poles ..... each other.
2. Red, ..... and ..... are primary coloured lights.
3. ..... is a non-magnetic material.
4. Sepia ejects a ..... fluid in the surrounding water when attacked by enemies.
5. The electromagnet changes the ..... energy into ..... energy.

**2 [A] Write the scientific term of each of the following statements :**

1. Any natural area including living organisms and non-living things. (.....)
2. Darkened area that formed as a result of falling light on an opaque object. (.....)
3. The space around the magnet in which the effect of magnetic force appears. (.....)
4. Materials that allow most light to pass through them. (.....)
5. A device that used to locate the four main geographical directions. (.....)
6. It consists of solute and solvent. (.....)

**[B] Give reasons for each of the following :**

1. Cobalt is a magnetic material.
2. Water is considered as a common solvent.

**3 [A] Choose the correct answer :**

1. An apple appears ..... when you look at it through a blue transparent glass sheet.
 

a. red	b. black	c. yellow
--------	----------	-----------

88.



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2. ..... is used to separate a mixture of sand and water.  
 a. Evaporation      b. Filtration      c. Separating funnel
3. ..... takes place by some living organisms to hide from their enemies.  
 a. Commensalism      b. Parasitism      c. Camouflage
4. ..... are examples of decomposers.  
 a. Fungi      b. Rabbits      c. Plants
5. Dynamo produces ..... energy.  
 a. electric      b. light      c. heat

**[B] Put (✓) or (✗) :**

1. Bilharzia worm is an external parasite. ( )
2. The carton is an opaque material. ( )
3. Salt and water are mixed by stirring. ( )

**[A] Correct the underlined words :**

1. The food relationship between cat and rat is a saprophytism. ( )
2. Red light + Green light = Cyan light. ( )
3. Vegetable salad and milk are pure substances. ( )
4. Light travels in curved lines. ( )

**[B] What happens if ... ?**

1. You mix seven spectrum colours together.
2. White light falls on a black opaque object.

**[C] Define the following :**

1. Environmental balance.
2. Visible spectrum.

17

El-Menofia Governorate

Shebeen El-Koum Directorate

**Answer the following questions :**

**[1] Complete the following sentences :**

1. We can see ..... in the sky during the rain falling.

2

Part

2. The basic idea of the electric generator is the changing of the ..... energy into ..... energy.
  3. The image which is formed by the narrow holes is ..... and .....
  4. ..... is used to separate a mixture of sand and iron filings.
  5. ..... and ..... are from the ways of self-defence against predation in living organisms.

**2 [A]** Write the scientific term of each of the following statements :

1. The materials that are attracted to the magnet. ( ..... )

2. It contains of more than one type of particles. ( ..... )

3. The devoured animal in the predation relationship. ( ..... )

4. The process of formation a solution. ( ..... )

5. The natural area including living organisms and non-living things. ( ..... )

6. A space around the magnet in which the magnetic force appears. ( ..... )

### [B] What happens when ... ?

- 2. You place your hand between a light source and the wall.**

### 3 [A] Choose the correct answer :

[B] Choose from column (B) what suits it in column (A) :

(A)	(B)
1. Dinosaur	a. decompose food remains.
2. Fungi	b. get shelter and food from sponge.
3. Tap worms	c. is an example of extinct animals.
4. Tiny aquatic living organisms	d. share the host its digested food.

1. .... 2. .... 3. .... 4. ....

4 [A] Give reasons for each of the following :

1. Wood is an opaque material.
2. The compass is an important tool for travellers.

[B] Correct the underlined words in each of the following statements :

1. Some types of mosquitoes infect man with small pox disease. ( ... )
2. Solubility speed decreases by rising the temperature. ( ... )
3. The unlike magnetic poles repel each other. ( ... )
4. Nodular bacteria fix oxygen in an inorganic form. ( ... )
5. White objects absorb all the lights that fall on them. ( ... )

18

El-Gharbia Governorate

Central Science Supervision

Answer the following questions :

1 [A] Complete the following sentences :

1. The magnetic force is most powerful at the ..... of the magnet and disappears at its .....
2. The ecosystem consists of two main components which are ..... and .....
3. Mixing a small amount of mud with water forming ..... solution that can be separated by .....
4. Light never transmits through ..... materials and ..... is formed as a result of the falling of light on these materials.
5. On mixing all spectrum colours, the ..... light is produced that can be separated again by using .....

91

2

Part

**[B]** Write the name and the type of the living organism which causes the following :

	The living organism	its type
1. Elephantiasis :	.....	.....
2. Small pox :	.....	.....
3. Rotten of bread :	.....	.....

**2 [A]** Choose the correct answer in each of the following :

1. .... is a magnetic material.
  - a. Copper
  - b. Iron
  - c. Aluminium
  - d. (a) and (c)
2. The dynamo is fixed in the bicycle .....
  - a. seat.
  - b. pedal.
  - c. tire.
  - d. lamp.
3. Yellow, cyan and magenta light colours are named as ..... light colours.
  - a. secondary
  - b. purple
  - c. primary
  - d. rainbow
4. Salt and pepper can be mixed by .....
  - a. shaking.
  - b. grinding.
  - c. stirring.
  - d. (a) and (b).

**[B]** Give reasons for each of the following :

1. Predation is a temporary food relationship.
2. Increasing the number of coil turns of the electromagnet.

**[C]** Give an example for each of the following :

1. An insectivorous plant : .....
2. A living organism undergoes mimicry : .....
3. A gaseous-gaseous mixture : .....
4. A common solvent : .....

**3 [A]** Write the scientific term for each of the following statements :

1. A phenomenon appears in the sky when sunlight passes through water droplets during rain falling. ( .... )
2. The food relationship between tiny aquatic organisms and sponge. ( .... )

92



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3. The process by which a solute dissolves in a solvent leading to the disappearance of the solute. ( ..... )
4. The space around the magnet in which the effect of magnetic force appears. ( ..... )

**[B] Mention only one use (importance) for each of the following :**

1. Evaporation process : .....
2. The electromagnet : .....
3. Compass : .....
4. Ammeter : .....

**[A] Correct the underlined word in each of the following :**

1. The image formed through a narrow hole is upright magnified. ( ..... )
2. If the available food resources become insufficient, friendship appears among preys' population. ( ..... )
3. The white dress appears green when red light strikes it. ( ..... )
4. Predators recycle the chemical elements within the ecosystem. ( ..... )

**[B] What happens when ... ?**

1. The light passes between two different transparent media.
2. Grinding of sugar before dissolving it in a liquid.
3. A cuttlefish is attacked by an enemy.

**[C] Give one difference between regular reflection and irregular reflection of light.**

**19**

El-Dakahlia Governorate

Educational Directorate

**Answer the following questions :**

**1 [A] Choose the correct answer :**

1. Most mixtures formed by dissolving in liquids are ..... mixtures.  
a. identical      b. homogeneous      c. heterogeneous

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## 2

Part

2. Bacteria is .....  
 a. producer.      b. decomposer.      c. parasite.
3. Plants get energy from .....  
 a. sunlight.      b. oxygen.      c. chlorophyll.
4. The dynamo generates ..... energy from mechanical energy.  
 a. thermal      b. light      c. electric

**[B] Give reasons for each of the following :**

1. Opaque objects form shadows.
2. The compass used to identify the four geographical directions.
3. The banana fruit seems to be yellow.
4. Water is called a common solvent.

**2 [A] Put (✓) or (✗) and correct the wrong ones :**

1. Yellow, purple and blue lights are primary light colours. ( )
2. The coil of the dynamo is made up of copper wire. ( )
3. A separating funnel is used to separate heterogeneous mixtures. ( )
4. The ecosystem may be large like a pond or small like a desert. ( )

**[B] Write the scientific term for each of the following :**

1. The light energy that can be seen. (.....)
2. A food relationship between two living organisms that benefit from each other. (.....)
3. A chemical substance that doesn't dissolve in water. (.....)
4. Reflection of light on the surface of a white paper in different directions. (.....)

**3 [A] Complete the following sentences :**

1. The magnetic force is most powerful at the ..... of the magnet.
2. We use the ..... to separate the white light into its seven colours.

3. The factories use huge ..... to move the heavy iron blocks.
4. Changing the natural circumstances of the environment in ancient eras leads to dinosaurs .....

**[B] What is the difference between each pair of the following :**

1. Magnetic and non-magnetic materials.

2. Pure substance and mixture.

3. Transparent and opaque material.

**4 [A] What do you expect to happen in the following cases :**

1. Man continues cutting forest trees.

2. Holding a magnet freely.

**[B] Why the pencil inside a glass of water seems broken ?**

**[C] Choose from column (B) what suits it in column (A) :**

(A)	(B)
1. Plastic	a. is the pole which always refers to the south direction of the Earth.
2. Steel	b. is a magnetic material.
3. Compass	c. is the area surrounding the magnet, where the magnetic force appears.
4. The south pole	d. is a non-magnetic material.
5. Magnetic field	e. is a device used to identify the main four geographical directions.

1. ....

2. ....

3. ....

4. ....

5. ....

2

Part

20

Ismailia Governorate

Directorate of Education

**Answer the following questions :****[A] Complete the following sentences :**

1. Sea water is ..... , while sugar is .....
2. In the dynamo the ..... energy changes into ..... energy.
3. The image formed through narrow holes is ..... and .....
4. The like magnetic poles ..... each other, while the dislike magnetic poles ..... each other.
5. Mixture can be formed by shaking, ..... and .....

**[B] What happens when ... ?**

1. Man interference by polluting the environment.
2. Cutting the electric current from the electromagnet.
3. You look at a yellow banana through a blue glass sheet.

**[2] [A] Write the scientific term :**

1. Natural area including living organisms and non-living things. ( ..... )
2. The light energy that can be seen. ( ..... )
3. An area of the magnet, where magnetic force is most powerful. ( ..... )
4. The materials through which light can't transmit. ( ..... )

**[B] Choose from column (B) what suits it in column (A) :**

(A)	(B)
1. Fleas	a. causes elephantiasis.
2. Filaria worm	b. causes malaria.
3. A mosquito	c. causes bread mold.
4. Ascaris worm	d. causes anaemia.
	e. cause small pox.

1. ....

2. ....

3. ....

4. ....

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**3 [A] Look at the opposite figure, then answer the following :**

1. The opposite apparatus is known as .....
2. We use it to know .....
3. It contains .....

**[B] Give reasons for :**

1. Water is a common solvent.
2. The death of the host is considered a loss to the parasite.
3. The formation of a shadow.

**[C] Mention one use :**

1. Separating funnel :
2. Glass prism :

 **[A] Choose the correct answer :**

1. Mixing ..... lights produces yellow light.  
a. red + blue    b. green + blue    c. red + cyan    d. red + green
2. You can separate sand from sand-water mixture by .....  
a. filtration.    b. evaporation.    c. magnet.    d. all the previous.
3. ..... is a magnetic material.  
a. Copper    b. Aluminium    c. Glass    d. Iron
4. As ..... decreases, the solubility speed increases.  
a. the amount of solvent    b. stirring  
c. temperature    d. the amount of solute
5. The huge electromagnet is used in .....  
a. electric bell.    b. cranes.    c. telephone.    d. car toy.

**[B] Mention the kind of food relationship between the following :**

1. Nodular bacteria and bean plant. ( )
2. Drosera and insects. ( )
3. Wet bread and bread mold fungus . ( )

2

Part

21

Suez Governorate

Directorate of Education

**Answer the following questions :****1 [A] Complete the following sentences :**

1. The material which doesn't allow light to transmit through is called .....
2. A set that changes the mechanical energy into electric energy known as .....
3. Red light + Green light + Blue light = .....
4. The magnetic pole that always refers to the north direction is called .....
5. Increasing temperature ..... solubility time.
6. .... is from the extinct organisms due to the change in the natural conditions.

**[B] Mention the name of the tool that can be used in each case :**

1. Separating a mixture of oil and water.
2. Separating of white light into seven colours.

**2 [A] Write the scientific term :**

1. The organisms which help in getting rid of dead organisms. ( .... )
2. The colour lights we get by mixing two colours of the primary coloured lights. ( .... )
3. A tool that is used for locating the main four geographical directions. ( .... )
4. A process needs the presence of solvent and solute. ( .... )
5. The food relationship between two organisms that get benefit from each other. ( .... )
6. The natural area including living organisms and non-living things. ( .... )

**[B] Compare between each of the following :**

Points of comparison	Magnetic materials	Non-magnetic materials
Definition :	.....	.....
Examples :	.....	.....

**3 [A] Choose the correct answer :**

1. The dynamo is fixed in the bicycle .....  
a. seat.      b. pedal.      c. tire.
2. The picture formed through a narrow hole is .....  
a. upright minimized.    b. inverted minimized.    c. inverted magnified.
3. Which of the following is considered as a secondary colour ? .....  
a. Yellow.      b. Green.      c. Blue.
4. We can see things as a result of ..... of light rays.  
a. reflection      b. refraction      c. absorption
5. The animal that devours another animal is called .....  
a. parasite.      b. host.      c. predator.
6. An example of decomposers is .....  
a. fungus.      b. rabbit.      c. plant.

**[B] What happens in each of the following ... ?**

1. When a magnet is hanged to move freely.
2. Cutting down of trees.

**4 [A] Put (✓) or (✗) :**

1. Filtration is used to separate soluble solid materials. ( )
2. Some living organisms can change their colour to simulate the colours of their surrounding environment where they live to hide from their enemies. ( )
3. The balance of ecosystem occurs due to the interference of man. ( )

**[B] Give reasons for :**

1. The moon cannot be considered as a source of light.
2. Air is considered a mixture.

**[C] Choose from column (B) what suits it in column (A) :**

(A)	(B)
1. Ascaris worm	a. can be separated by using a magnet.
2. Pure water	b. internally parasitism.
3. Iron filings and sand mixture	c. causes anaemia.
4. A food relationship between man and liver worm	d. pure substance.
	e. externally parasitism.

1.

2.

3.

4.

99

2

Part

22

Port Said Governorate

Port Said Educational Board

**Answer the following questions :****1 Complete the following sentences :**

1. Mixtures can be formed by shaking, ..... or .....
2. Transparent and translucent objects have the colour of the light which ..... , but opaque objects have the colour of light they .....
3. Ecosystem is a natural area that contains ..... and .....
4. Like magnetic poles ..... , while unlike poles ..... each other.

**2 [A] Choose the correct answer :**

1. Living organisms use ..... to escape from their enemies.
  - a. predation
  - b. saprophytism
  - c. mimicry
  - d. symbiosis
2. The natural magnet is one of the ..... ores.
  - a. copper
  - b. iron
  - c. carbon
  - d. aluminium
3. Bilharzia worms are considered as ..... organisms.
  - a. producer
  - b. consumer
  - c. decomposer
  - d. parasitic
4. ..... is one of the primary colours.
  - a. Green
  - b. Magenta
  - c. Yellow
  - d. Cyan

**[B] Give reasons for :**

Shadow is formed for opaque objects.

**3 [A] Write the scientific term :**

1. A food relationship between two different types of living organisms in which they benefit from each other. ( ..... )
2. The space around a magnet in which the magnetic force appears through. ( ..... )
3. Extinct organism as a result of changing the natural circumstances of the environment. ( ..... )
4. The bouncing of light when it falls on a bright surface. ( ..... )

**[B] What happens when ... ?**

Passing white light through a glass prism.

100



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[A] Choose from column (B) what suits it in column (A) :

(A)	(B)
1. Filaria worm	a. is used to move iron blocks.
2. Solvent	b. conveys small pox to man.
3. Electromagnet	c. causes elephantiasis to man.
4. Wood	d. is the substance in which the solute dissolves.
5. Bread mould fungus	e. is a saprophytic organism.
	f. is a non-magnetic material.

1. .... 2. .... 3. ....  
4. .... 5. ....

[B] In the opposite figure :

The tool used in separating this mixture is ..... ; and it is used in separating .....



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Damietta Governorate

Directorate of Education

Answer the following questions :

[A] Complete the following statements :

1. The ecosystem is a natural area that contains ..... and .....
2. The solution is a mixture of ..... and .....
3. The relationship between sponge and the tiny aquatic living organisms is ..... , while the relationship between nodular bacteria and leguminous plants is .....
4. In the electromagnet, the ..... energy changes into ..... energy.
5. Solid materials can be mixed by ..... or .....

[B] Correct the underlined words in each of the following statements :

1. Fungi that feed on the dead organisms are called parasites. ( - - - )
2. When a red light strikes a white object, the object appears cyan. ( - - - )
3. Natural magnet is a red rock. ( - - - )

101

## 2

Part

## 2 [A] Write the scientific term for each of the following :

1. A device that used to locate the four main geographical directions. ( ..... )
2. A device that used to change the mechanical energy into electric energy. ( ..... )
3. The space around the magnet in which the effect of magnetic force appears. ( ..... )
4. A phenomenon in which the harmless organisms imitate other harmful or poisonous organisms to frighten their enemies and escape from them. ( ..... )
5. Materials that are not attracted to the magnet. ( ..... )

## [B] Give reasons for :

1. The pen appears broken in a glass of water.  
.....
2. Air is considered a mixture.  
.....
3. Drosera and dionaea are known as insectivorous plants.  
.....

## 3 Choose the correct answer :

1. The salt solution is ..... mixture.  
a. a homogeneous      b. a heterogeneous      c. solid      d. gas
2. Ascaris worm is a .....  
a. decomposer.      b. producer.      c. parasite.      d. predator.
3. The solubility speed increases when ..... decreases.  
a. temperature      b. stirring  
c. the amount of solvent      d. the amount of solute
4. From the magnetic materials is .....  
a. aluminium.      b. iron.      c. copper.      d. wood.
5. Which of the following is considered as a secondary colour ? .....  
a. Yellow.      b. Green.      c. Blue.      d. Red.
6. Light travels in ..... lines.  
a. curved      b. broken      c. straight      d. zigzag
7. Filaria worm causes ..... disease to man.  
a. malaria      b. small pox      c. bilharzia      d. elephantiasis

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8. We can see objects as a result of ..... of light rays.
- refraction
  - reflection
  - analysis
  - absorption

**4 [A] What is meant by each of the following ... ?**

- Environmental balance.
- Semi-transparent materials.

**[B] What happens if ... ?**

- A chameleon feels danger.
- You approach a north pole of a magnet to a south pole of another magnet.
- Mixing the seven spectrum colours.

**[C] How can you separate the following mixtures ?**

- A mixture of salt in water.
- A mixture of sand and water.
- A mixture of iron nails and sand.

**24 Kafir El-Sheikh Governorate**

Directorate of Education

**Answer the following questions :**

**1 Complete the following sentences :**

- Red, green and blue coloured lights are called .....
- Like magnetic poles ....., while unlike poles ..... each other.
- On mixing all the seven spectrum colours, the ..... is produced.
- A mixture can be formed by stirring, ..... or .....
- ..... + ..... Solubility process → Solution.

**2 Choose the correct answer :**

- Green plants are considered as .....
  - producers.
  - parasites.
  - decomposers.

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## 2

Part

2. Mosquitoes cause ..... disease to man.  
 a. elephantiasis      b. malaria      c. bilharziasis
3. A salty solution is considered a/an ..... mixture.  
 a. homogeneous      b. heterogeneous      c. identical
4. We can see things as a result of ..... of light rays.  
 a. refraction      b. reflection      c. absorption
5. ..... can change its colour to stimulate the colours of the surrounding environment.  
 a. Bee      b. Chameleon      c. Ascaris worm
6. The coil of a dynamo is made of ..... wire.  
 a. copper      b. graphite      c. iron
7. ..... is used to separate a mixture of oil and water.  
 a. Magnetic attraction      b. Evaporation      c. Separating funnel
8. The animal that devours another animal is called a .....  
 a. prey.      b. host.      c. predator.

## 3 [A] Write the scientific term :

1. The change of light rays directions when they transmit through the separating surface between two different transparent media . ( ..... )
2. The darkened area formed as a result of the falling of light on an opaque object. ( ..... )
3. The space around the magnet in which the magnetic force appears. ( ..... )
4. Materials which you can see objects clearly behind them. ( ..... )
5. A tool that is used for locating the four main geographical directions. ( ..... )
6. The relationship between two organisms that benefit from each other. ( ..... )

## [B] Give reasons for :

1. Water is considered as a common solvent.
2. Images can be formed by using narrow holes.

## 4 [A] Put (✓) or (✗) :

1. There is no relationship between living organisms. ( )
2. Carton paper is an opaque object. ( )
3. Filtration and magnetic attraction are ways for mixture formation. ( )

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4. Magnetism is concentrated in the middle of the magnet. ( )  
 5. The moon seems luminous because it reflects sunlight. ( )  
 6. A natural magnet is one of the iron ores. ( )

**[B] How can the following mixtures be separated ?**

1. Sand and water.  
 2. Iron nails in sand.

**25**

El-Behira Governorate

El-Safwa Private Schools

**Answer the following questions :**

**1 Complete the following sentences :**

1. Opaque objects ..... passing of light, while transparent objects ..... passing of light.  
 2. ..... is from internal parasites, while ..... is from external parasites.  
 3. ..... and ..... are from methods of mixture formation.  
 4. Predation process ..... the number of preys.  
 5. ..... is pure substance.

**2 [A] Choose the correct answer :**

1. In dynamo, kinetic energy changes to ..... energy.  
 a. electric      b. light      c. magnetic      d. sound  
 2. All the following are from transparent materials except .....  
 a. carton      b. glass.      c. water.      d. air.  
 3. By mixing all spectrum colours ..... colour is produced.  
 a. magenta      b. black      c. white      d. blue  
 4. Spoon seems broken in a cup containing water due to .....  
 a. light reflection.      b. light splitting.  
 c. light refraction.      d. light travels in straight line.

**[B] Compare between :**

P.O.C	Magnetic materials	Non-magnetic materials
<b>Definition :</b>	.....	.....
<b>Examples :</b>	.....	.....

## 2

Part

## 3 [A] Write the scientific term :

1. Returning back of light rays when they fall on a plane mirror. ( ..... )
2. The space around a magnet and the magnetic force appears on it. ( ..... )
3. The substance that dissolves in the solvent. ( ..... )
4. It is natural area including living organisms and non-living things. ( ..... )

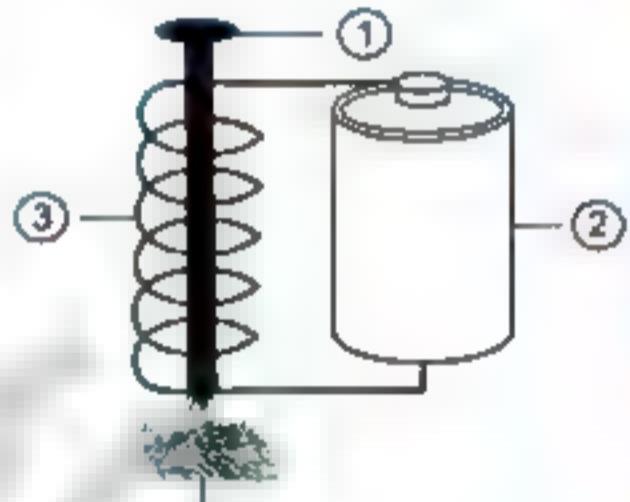
## [B] Give reasons for :

1. Red apple appears black through blue glass sheet.
2. Some living organisms can make mimicry or camouflage.

## 4 [A] Look at the opposite figure then answer the following :

## 1. The figure represents .....

- ① Points to .....  
 ② Points to .....  
 ③ Points to .....



## 2. What happens if ... ?

You near some iron filings to the figure.

## [B] Write the name of tools which used in :

1. Knowing the four directions. ( ..... )
2. Separation of a mixture of oil and water. ( ..... )

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Rayoun Governorate

Salaam Language School

Answer the following questions :

## 1 Complete the following sentences :

1. The idea of working of the electromagnet is the change of ..... energy into ..... energy.
2. In salty solution salt is the ..... , while water is the .....
3. Plants that feed on some insects are known as ..... plants such as .....
4. Like magnetic poles ..... whereas dislike poles ..... each other.

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**2 [A] Write the scientific term :**

1. The regions of the magnet where the magnetic force is most powerful. ( ..... )
2. A darkened area that formed when light falls on an opaque object. ( ..... )
3. The natural area including living organisms and non-living things. ( ..... )
4. Substances that are made up of only one type of identical particles. ( ..... )
5. The light energy that can be seen. ( ..... )

**[B] Mention the function of each of the following :**

1. Glass prism.
2. Filter paper.

**3 [A] Choose the correct answer :**

1. When the magnet is hanged freely it will take the direction .....  
a. north and east.      b. north and south.      c. west and east
2. The properties of the image which formed through narrow holes are .....  
a. small and inverted.      b. small and upright.      c. large and inverted.
3. ..... ejects a black colour fluid in the surrounding water when attacked by its enemies.  
a. Frog      b. Butterfly      c. Sepia
4. When you mix two or more kinds of matter together, the produced matter is called .....  
a. element.      b. compound.      c. mixture.

**[B] What happens in each case of the following ... ?**

1. Approaching a magnet to a mixture of sand and iron nails.
2. When you look at a spoon put in a beaker contains water.

**4 [A] Correct the underlined words :**

1. Mosquitoes infect man with elephantiasis. ( ..... )

2

Part

2. Newton is the scientist who discovered that the magnetic energy can be changed into electric energy. ( ..... )

3. The solubility speed of solids decreases by grinding. ( ..... )

4. In the regular reflection, the light rays are reflected in different directions. ( ..... )

**[B] Give reasons for each of the following :**

1. Aluminium, copper and glass are non-magnetic materials.

2. Air is considered a mixture.

**27** Beni-Sueif Governorate

## Governmental Language Schools

***Answer the following questions :***

**[A] Complete the following statements :**

1. The similar magnetic poles ..... and the opposite poles ..... each other.
  2. Dynamo converts ..... energy into ..... energy.
  3. The ecosystem consists of ..... and .....
  4. ..... is a common solvent.

**[B] Give reasons for each of the following :**

1. Sugar is a pure substance.
  2. A pencil seems broken when it is placed in a glass cup of water.

### 3 Write the scientific term:

1. A set is used to change electric energy into magnetic energy. ( ..... )

2. It is the bouncing (returning back) of light rays. ( ..... )

3. It is the balance among the components of the ecosystem. ( ..... )

4. A food relationship between lion and deer. ( ..... )

### 3 Choose the correct answer:

1. Light transmits in ..... lines.

  - a. broken
  - b. curved
  - c. straight

2. We can distinguish between the components of .....  
 a. homogeneous mixture.      b. solution.      c. heterogeneous mixture.
3. Wood is a ..... material.  
 a. transparent      b. opaque      c. semi-transparent
4. ..... is considered as a mixture.  
 a. Milk      b. Baking soda      c. Distilled water

**4 [A] Correct the underlined words :**

1. Opaque material allows most light to pass through it. ( ..... )
2. Cyan, yellow and magenta are primary coloured lights. ( ..... )
3. Fleas cause anaemia to human. ( ..... )
4. Copper and iron are non-magnetic materials. ( ..... )

**[B] Match each mixture with the suitable method of separation :**

(A)	(B)
1. Salty solution	a. by filtration.
2. Sand and water	b. by evaporation.
3. Iron filings and sand	c. by separating funnel.
4. Mixture of oil and water	d. by magnetic attraction.
	e. by stirring.

1. ....      2. ....      3. ....      4. ....

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El-Minia Governorate

Kawmia Language School

**Answer the following questions :**

**1 [A] Choose the correct answer :**

1. .... ejects a black colour fluid in the surrounding water when attacked by its enemies.  
 a. Frog      b. Sepia      c. Chameleon
2. Red, green and blue lights are ..... lights.  
 a. primary      b. secondary      c. complementary
3. When a magnet is hanged freely, its north pole refers towards the ....  
 a. east.      b. west.      c. north.

109

2

Part

4. The carton paper is a/an ..... material.  
 a. opaque      b. transparent      c. semi-transparent
5. The substance which dissolves in a solvent is called .....  
 a. solute.      b. mixture.      c. solution.

**[B] Compare between :**

Points of comparison	Regular reflection	Irregular reflection
<b>Definition :</b>	.....	.....
<b>Examples :</b>	.....	.....

**2 [A] Correct the underlined words in each of the following statements :**

1. Wood is attracted to the magnet. ( ..... )
2. Electric motor converts kinetic energy into electric energy. ( ..... )
3. Solubility decreases by shaking and rising the temperature. ( ..... )

**[B] Mention the kind of food relationship between each of the following :**

1. Nodular bacteria and bean plant. ( ..... )
2. Sponge and tiny aquatic living organisms. ( ..... )
3. Bilharzia worm and human. ( ..... )

**[C] Mention the function of :**

Electric magnet.

**3 [A] Write the scientific term :**

1. The space around a magnet in which the magnetic force appears. ( ..... )
2. A natural area which includes living organisms and non-living things. ( ..... )
3. The change of light rays direction when they transmit through the separating surface between two different transparent media. ( ..... )
4. A tool that is used for locating the main four geographical directions. ( ..... )

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**[B] Give reasons for :**

1. Air is considered as a mixture.
  
2. Predation is a temporary food relationship.

**4 [A] Choose from (B) which is suitable for (A) :**

(A)	(B)
1. Salty solution	a. is called common solvent.
2. Oil and water mixture	b. can be separated by a magnet.
3. Iron filings and sand mixture	c. can be separated by evaporation.
4. Pure water	d. can be separated by separating funnel.

1. ....      2. ....      3. ....      4. ....

**[B] What happens if ... ?**

1. Absence of saprophytic organisms.
  
2. White light passes through a glass prism.

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## PART TWO

# Final Exams 2020

## **25 Final Exams of some Schools Governorates.**



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**1****Cairo Governorate****St. Joseph's School****Answer the following questions :****1. [A] Put (✓) or (✗) and correct the wrong :**

1. Red, green and yellow are primitive colours. ( )
2. Bilharzia is example of external parasite. ( )
3. Like magnetic poles repel. ( )
4. By increase temperature solubility time decrease. ( )
5. Yellow banana absorbs the all spectrum colors and reflects green colour. ( )
6. There is dark shadow for clear water. ( )

**[B] What is the function of ... ?**

1. Compass.
2. Camouflage for frog.
3. Stirring.

**2. [A] Write the scientific term :**

1. The magnetic pole that is attracts North pole of another magnet. ( ..... )
2. A set used to change mechanical energy into electric energy. ( ..... )
3. The food relationship in which the organism get its food by decomposing the dead bodies. ( ..... )
4. It is the balance among the components of ecosystem. ( ..... )
5. Materials allow some coloured light to pass through them. ( ..... )
6. A darkened area formed when light falls on an opaque object. ( ..... )

**[B] What happens when ... ?**

1. Blue light strikes red glass sheet.
2. Mixed a little amount of oil in water.
3. Sunlight falls on a plane mirror.

**3. [A] Complete the following sentences :**

1. ..... process is used to separate salt from salty water while ..... is used to separate iron from mixture of iron and sand.
2. Dionaea and ..... are plants prey on insects to get required elements for making .....

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PART

**3**

3. Mushroom is example of ..... while commensalism is one type of ..... relationship among living organisms.
4. Fruit salad is an example of ..... mixture while soda water is an example of ..... mixture.
5. From examples artificial magnets is ..... while ..... is temporary magnet.
6. Light ..... into seven colours when passes through prism, but it ..... when it passes from water to air.

**[B] What is meant by ... ?**

1. Coloured opaque object appear with its own colour.
2. Solvent.
3. Pure substance.

**4. [A] Complete the table :**

Name	The relation	The name of organism
1. Wolf and rabbit	..... (a) .....	The prey is (are) ..... (d) .....
2. Nodular bacteria and bean plant	..... (b) .....	The benefit organism (or organisms) ..... (e) .....
3. Mosquito and man	..... (c) .....	The parasite is (are) ..... (f) .....

**[B] Give reasons for :**

1. Magnet attracts iron paper clips but it does not attract copper wire.
2. Sugar dissolves in 300 ml of water faster than in 150 ml of water.
3. White light is mixture colour not primitive colour light.

**2**

Cairo Governorate

El-Amal Language Schools

**Answer the following questions :****1. [A] Complete the following sentences :**

1. The food relationship in which both organisms get benefit from each other is known as .....

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2. In salty solution, salt is the ..... , while water is the .....
3. Sunlight is separated into ..... colours by passing it through a .....
4. The magnetic force is most powerful at the ..... of the magnet.

**[B] What happens when ... ?**

1. Light falls on a shiny surface.

2. Bacteria completely disappear.

3. A strong magnet is put close to a piece of wood.

**2. [A] Correct the underlined words :**

1. Disc drive and electric mixer contain dynamo. ( .... )
2. The object seems black as it reflects all the light colors. ( .... )
3. The solubility speed decreases by shaking and rising the temperature. ( .... )
4. Two different kinds of living organisms, where one of them benefits from the other while the other is harmed and infects with diseases is saprophytism. ( .... )

**[B] Study the following figures, then :**



Figure (A)

- The figure represents the

- Function .....

**[C] Give reasons for :**

1. We must wear white clothes in summer season.

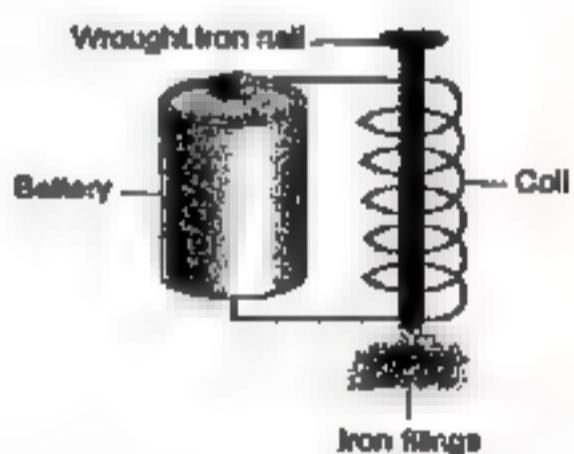


Figure (B)

- The figure represents the

- Function .....

PART

**3**

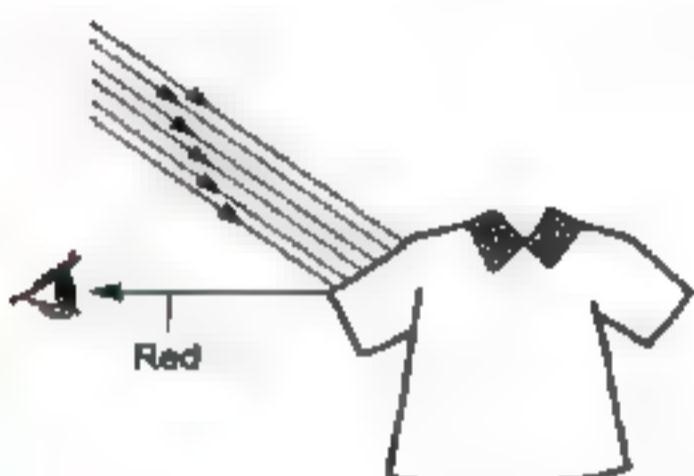
2. Some plants eat tiny insects.

.....

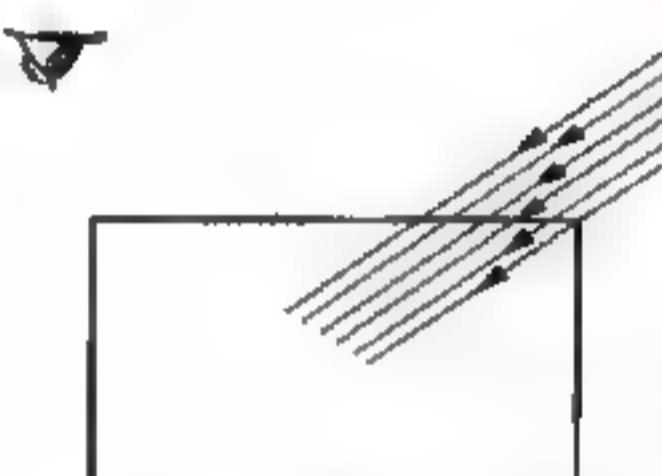
**3. [A] Write the scientific term :**

1. A relation between two living organisms that benefit from each other. ( ..... )
2. A substance that consists of more than one type of particles. ( ..... )
3. The change in the direction of the light when it passes through two different transparent media. ( ..... )

**[B] What is the colour of the body in each case ... ?**



1. ....



2. ....

**[C] Mention the relation between :**

1. Lion and deer.
  2. Sponge and the tiny aquatic living organisms.
- .....

**4. [A] Choose from column (A) what is suitable it from column (B) :**

(A)	(B)
1. Salt solution	a. opaque material.
2. Carton	b. travels in straight line.
3. Mushroom fungus	c. reflects light.
4. Light	d. from saprophytes.
	e. mixture.

1. ....

2. ....

3. ....

4. ....

**[B] Show how can you separate the following :**

1. Sand – Water mixture.
  2. Iron fillings from sand.
- .....

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## [C] Compare between :

Points of comparison	Primary coloured lights	Secondary coloured lights
Definition :	..... ① .....	..... ② .....
Examples :	..... ③ .....	..... ④ .....

3

Cairo Governorate

Nazha Language Schools

Answer the following questions :

## 1. [A] Choose the correct answer :

1. Mixing all the primary coloured lights gives .....  
a. black light.      b. white light.      c. red light.
2. The speed of the solubility process ..... by increasing the temperature.  
a. increases      b. decreases      c. doesn't change
3. The magnet has ..... poles.  
a. 4      b. 3      c. 2
4. Bilharziasis disease is caused by .....  
a. bilharzia worm.      b. filaria worm.      c. mosquito.
5. The nearer objects to the light source has the ..... shadow.  
a. smaller      b. bigger      c. fainted
6. ..... is the food relationship that occurs between predator and prey.  
a. Symbiosis      b. Saprophytism      c. Predation
7. The white light splits into ..... colours.  
a. 3      b. 6      c. 7

## [B] Mention the name only of the following tool or process :

1. It is used to separate sand from water : .....
2. It is used to determine the four main direction : .....
3. It is used to separate the oil from water solution : .....

## [C] What happens if ... ?

1. The electric current flows through a coil twisted around an iron nail.

PART

**3**

2. You put a part of the pencil in a cup of water.

**2. [A] Write the scientific term :**

1. The light energy that can be seen. ( ..... )
2. A natural area including living organisms and non living things. ( ..... )
3. The substance that is made of only one type of identical particles. ( ..... )
4. A phenomenon in which harmless living organism imitate other harmful or poisonous living organisms to frighten their enemies and escape from them. ( ..... )
5. It is the main source of light on the Earth. ( ..... )

**[B] Correct the underlined words :**

1. Rainbow is the darkened area that formed as a result of light falling on an opaque object. ( ..... )
2. The dynamo changes the electric energy into magnetic energy. ( ..... )
3. Wolf and ascaris hide from enemies by changing its colour to simulate the surrounding environment. ( ..... )
4. The Prism is used in electric bells and to lift tons of steel or iron. ( ..... )
5. Bouncing of light when it falls on a surface is called light refraction. ( ..... )

**3. Complete the following sentences :**

1. The clear water is a ..... material while wood is ..... material.
2. In salty solution, salt is the ..... while water is the .....
3. ..... and ..... are from the shapes of the artificial magnets.
4. The relationship between nodular bacteria and bean plant is called .....
5. The secondary coloured lights are ..... , ..... and .....
6. The factors that affect the speed of solubility are temperature, ..... and .....

**4. [A] Put (✓) or (✗) :**

1. The unlike poles of the magnets repel each others. ( )
2. Water is the most common solute. ( )
3. Nickel and iron are attracted to the magnet. ( )
4. Light travels in curved line. ( )
5. Predation is more common in plant world than that in animal world. ( )
6. The wire of the dynamo is made up of copper. ( )

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[B] Choose from column (A) what is suitable it from column (B) :

(A)	(B)
1. Mosquito	a. make their food during photosynthesis process.
2. Commensalism	b. is considered from the insectivorous.
3. Drosera	c. is a food relationship between two living organisms where one of them get benefits from the other while the other neither gets benefit nor harmed.
4. Producers	d. is considered as an external parasitism.

1. .... 2. .... 3. .... 4. ....

[C] Give reasons for :

1. Milk is a mixture.
2. We must wear white clothes in summer.

4

Cairo Governorate

Basateen and Dar El-Salem Educational Administration

Answer the following questions :

1. [A] Choose the correct answer :

1. A sheet of aluminium foil is an example for ..... material.
  - a. transparent
  - b. opaque
  - c. translucent
  - d. all the previous
2. Light travels in straight lines. This principle is the idea of making ..... .
  - a. electric iron.
  - b. radio.
  - c. electric heater.
  - d. camera.
3. If you put an object at a distance of 20 cm in front of a mirror, the distance between the image and the object equals ..... .
  - a. 10 cm.
  - b. 20 cm.
  - c. 30 cm.
  - d. 40 cm.
4. The speed of light in air is ..... that in water.
  - a. faster than
  - b. slower than
  - c. equal to
  - d. half
5. Which of the following is magnetic material ? ..... .
  - a. Chalk.
  - b. Nail.
  - c. Paper.
  - d. Glass.
6. The dynamo generates ..... energy from mechanical energy.
  - a. thermal
  - b. electrical
  - c. light
  - d. magnetic

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PART

**3**

7. The magnet which is made by the effect of electricity is called .....  
 a. natural magnet. b. electromagnet. c. magnetic. d. b and c  
 8. The process of photosynthesis is done by ..... living organism.  
 a. consumer b. producer c. decomposer d. saprophyte

**[B] How can the following mixtures can be separated :**

1. Paper clips and flour : .....  
 2. Mud in water : .....

**2. [A] Write the scientific term :**

1. A tool used to identify the four geographical direction. ( ..... )  
 2. The materials that don't attract to magnet. ( ..... )  
 3. The natural area that including living and non living things. ( ..... )  
 4. An apparatus used to separate immiscible liquid mixtures. ( ..... )

**[B] What happens when ... ?**

1. You suspend a bar magnet to move freely.  
 .....  
 2. Mixing green and blue lights.  
 .....

**3. [A] Put (✓) or (✗) in front of the following statements :**

1. When the white light strikes a red rose, it reflects the white light. ( )  
 2. The image formed by using narrow holes is maximized and inverted. ( )  
 3. The north pole of a magnet attracts the north of the other magnet. ( )  
 4. Blue, green and red lights are the primary coloured lights. ( )

**[B] Identify the type of the food relation among the following organisms using one of these choices : (Predation – Parasitism – Mutualism – Saprophytism)**

1. Bilharizia worm and man. ( ..... )  
 2. Lion and deer. ( ..... )  
 3. Nodular bacteria and roots of leguminous plants. ( ..... )  
 4. Bread mold fungus. ( ..... )

**4. [A] Choose the correct answer for the following diagrams, then complete the following sentences :**

(Light reflection – Rainbow – Light refraction – U shape magnet – Shadow)



a. ....



b. ....



c. ....



d. ....

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1. The ..... is the reason for seeing the spoon broken in the cup of water.
2. The nearer object to the light source has ..... shadow.
3. Rainbow is formed due to the ..... as each water drop acts as .....

**[B] Give reasons for :**

1. You can see your image on a plane mirror.
- .....
- .....

2. The formation of shadow.
- .....
- .....

**5****Cairo Governorate****Noor Official language School****Answer the following questions :****1. [A] Choose the correct answer :**

1. All the following materials are not attracted to the magnet except .....

  - a. plastic.
  - b. paper.
  - c. glass.
  - d. nickel.

2. All the following are external parasites except .....

  - a. lice.
  - b. ticks.
  - c. liver worm.
  - d. lamprey.

3. The dynamo generates ..... energy from the mechanical energy.

  - a. heat
  - b. electric
  - c. light
  - d. kinetic

4. When light passes from water to air, light is .....

  - a. reflected.
  - b. analyzed.
  - c. refracted.
  - d. collected.

5. The solvent in a mixture of chocolate and milk is .....

  - a. milk.
  - b. chocolate.
  - c. water.
  - d. oil.

6. All the following cause a disturbance to the environmental balance except .....

  - a. cutting down trees.
  - b. natural changes.
  - c. disappearance of organisms.
  - d. saprophytes.

**[B] Give reasons for :**

1. Plants are called autotrophic organisms.
- .....

2. A banana fruit seems yellow when sunlight falls on it.
- .....

3. Air is considered as a mixture.
- .....

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PART

**3****2. [A] Complete the following sentences :**

1. ..... and ..... are from the ways of self-defence against predation in living organisms.
2. The object's image formed through narrow holes is ..... and .....
3. Predators help preys in getting rid of ..... or ..... members.
4. The like poles ..... each other, whereas the unlike poles ..... each other.

**[B] What is the importance ... ?**

1. Electromagnet : .....
2. Glass prism : .....

**3. [A] Write the scientific term :**

1. A set that is used for locating the main four geographical directions. ( ..... )
2. A darkened area formed when light falls on an opaque object. ( ..... )
3. The space around a magnet in which the magnetic force appears. ( ..... )
4. The natural area which includes living organisms and non-living things. ( ..... )
5. The temporary food relationship that ends by devouring the prey or a part of it. ( ..... )
6. A set is used to separate water – oil mixture. ( ..... )

**[B] Mention the kind of food relationship between each of the following :**

1. Nodular bacteria and bean plant : .....
2. Fungi and dead organisms : .....

**[C] What will happen when ... ?**

1. A magnet is hanged to move freely. ....
2. Mixing red colour with green colour. ....

**4. [A] Put (✓) or (✗) in front of the following statements :**

1. The black opaque objects absorb all the light colours and reflect their own colour only. ( )
2. Blue, green and red lights are primary coloured lights. ( )
3. As the temperature of a solvent increases the solubility time decreases. ( )
4. Red is the first colour in the spectrum colours, but violet is the last colour. ( )

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5. Internal parasites feed by sucking host's blood. ( )

6. Magnetism decreases as we go from two poles of magnet towards its middle. ( )

[B] How can you separate the following mixtures ... ?

1. Paper clips and flour : .....
  2. Salt and water (salt solution) : .....

**[C] Compare between :**

## **Opaque materials**

## **Transparent materials**

6

## Cairo Governorate

Margret El-Eman Language School

**Answer the following questions :**

### **1. Choose the correct answer :-**

3



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**2. [A] Complete the following sentences :**

1. Solubility process needs the presence of ..... and .....
  2. We can see ....., when sunlight passes through water droplets during rain fall.
  3. Some types of mosquitoes infect ..... with ..... disease.
  4. The speed of solubility ..... by increasing stirring process.

**[B] Mention one importance for the following ... ?**

- ### **1. Glass prism :**

- ## **2. Electromagnet :**

- ### **3. Evaporation process :**

For more information about the study, please contact Dr. John Smith at (555) 123-4567 or via email at [john.smith@researchinstitute.org](mailto:john.smith@researchinstitute.org).

**[C] If you have a piece of iron and a bar of magnet, How can you differentiate between them (by using paper clips) ?**

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[D] Define ... ?

- ## **1. Energy :**

-----

- ## **2. Magnetic material :**

-----

### **3. [A] Write the scientific term :**

1. A set used to generate the electric current by using a magnet and a coil.

(-----)

## Final Examinations

2. Phenomenon in which organisms simulate the colour of the environment. ( ..... )
3. The natural area that includes living organisms and non-living things. ( ..... )
4. The light that is produced by mixing two primary coloured lights. ( ..... )
5. A set used to separate oil from water. ( ..... )
6. A tool that is used for locating geographic direction. ( ..... )
7. The substance in which the solute dissolves. ( ..... )

## [B] Give reasons for :

1. Shadow is formed when light falls on an opaque object.  
.....
2. The pen appears broken in glass of water.  
.....

## [C] Correct the underlined words :

1. Alcohol is a common solvent. ( ..... )
2. Natural magnet is a red rock. ( ..... )
3. Solubility speed decreases by rising the temperature. ( ..... )

## 4. [A] Put (✓) or (✗) :

1. The Sun is the main source of light on the Earth. ( )
2. Pure substance is the substance that is made of only one type of identical particles. ( )
3. Water, alcohol and benzene are examples for solvents. ( )
4. Filtration process is used to separate solid materials that are soluble in water. ( )
5. Vegetable salad is considered to be a homogeneous mixture. ( )

## [B] Choose from column (A) what's suitable it from column (B) :

(A)	(B)
1. Jawless lamprey	a. is an internal parasite.
2. Light refraction	b. changes mechanical energy into electric energy.
3. Light reflection	c. is the return back of light when it falls on an object.
4. Electric generator	d. is the change of direction of light ray when it enters a new medium at an angle.
5. Ascaris worm	e. is an external parasite.

1. ....

2. ....

3. ....

4. ....

5. ....

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## [C] What happens if ... ?

1. Red colour light falls on a white ball.
  
2. When a magnet is hanged freely to move.

7

Giza Governorate

El Agaza Educational Directorate

**Answer the following questions :****1. [A] Complete the following sentences :**

1. The spectrum colours start with ..... and end with .....
2. Bilharzia worms hurt man and are named internal ..... while the organisms they hurt are called .....
3. Iron filings and sand can be separated by ..... while sand and water can be separated by .....
4. Mixing ..... and ..... Coloured lights gives yellow colour.

**[B] What happens if ... ?**

Putting the north poles of a magnet near the south pole of another magnet.

**2. [A] Write the scientific term :**

1. The relationship between a lion and a deer. ( .... )
2. Tools used to locate the main four directions. ( .... )
3. A process used to separate salt from water. ( .... )
4. A dark area that is formed when light falls on an opaque object. ( .... )

**[B] Correct the underlined words :**

1. Magenta is a primary colour. ( .... )
2. Bread mold fungus is considered as aparasite. ( .... )

**3. [A] Choose the correct answer :**

1. Light travels in ..... lines.
 

a. curved	b. straight
c. zigzag	d. curved and zigzag
2. Plants that can't make their protein are called .....
 

a. hosts.	b. insectivorous plant.
c. preys.	d. parasites.

3. .... is a magnetic material.
- Gold
  - Iron
  - Copper
  - Aluminium
4. The material that dissolves to produce solution is called .....
- mixture.
  - solvent.
  - solute.
  - compound.

**[B] Give reasons for :**

- Water is called a common solvent ?
- Electromagnet is considered a temporary magnet ?

**4. [A] Put (✓) or (✗) :**

- White paper absorbs all colours. ( )
- Some types of mosquitoes infect man with malaria disease. ( )
- Magnetism is always related with electricity. ( )
- The direction of freely moving magnet is north - south direction. ( )

**[B] Mention one use of :**

1. Glass prism :

2. Electromagnet :

8

Giza Governorate

Child Home Language School

**Answer the following questions :**

**1. Complete the following sentences :**

- Factors affecting solubility process are ..... and .....
- The magnet has ..... poles which are ..... and .....
- The white light consists of .....
- Mixing red and green light gives ..... light colour.
- Water and clear glass are ..... media, while tissue paper is ..... media.
- The ..... is the main source of light on the Earth.
- When light falls on a dark body, it ..... to my eyes.
- ..... is an example of external parasites.

**2. [A] Give reasons for :**

- The green plants are autotrophic organisms.

PART

**3**

2. Table salt can be separated from sea water.
  
3. We must increase the number of coil turns in the electromagnet.

**[B] Give one example for :**

1. Large ecosystem :
  
2. Non-magnetic substance :
  
3. Non-living component of ecosystem :
  
4. Pure substance :

**3. [A] Write the scientific term :**

1. Mixing two primary coloured light blue and red produces. ( ..... )
2. Food relationship in which two organisms get benefit. ( ..... )
3. The change in the direction of light rays when they pass through two transparent medium. ( ..... )
4. The light energy that can be seen. ( ..... )

**[B] Write one use for :**

1. Compass :
  
2. Electromagnet :
  
3. Dynamo :
  
4. Glass prism :

**4. [A] Put (✓) or (✗) :**

1. Food relation in which decomposers get their food by decomposing food remains is known as saprophytism. ( )
2. Shark is an example of predator animal. ( )
3. Similar magnetic poles repel each other. ( )
4. Wood is an example of translucent material. ( )

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## [B] What happens if ... ?

1. Light rays fall on shiny surface.

2. You move a wire between two poles of a magnet.

3. The amount of the solute increases.

9

Giza Governorate

6<sup>th</sup> October Educational Zone

Answer the following questions :

## 1. [A] Complete the following sentences :

1. The spectrum colours starts with ..... and end with .....
2. The dynamo changes the ..... energy into ..... energy.
3. Examples of opaque materials are ..... and .....
4. Mixing ..... and ..... coloured lights gives yellow colour.
5. Like poles ..... each other where dislikes poles ..... each other.

## [B] Show how you can separate the following mixtures ?

1. Salt from salty water.

2. Iron filings from sand.

## 2. [A] Choose the correct answer :

1. Light travels in a ..... line.
 

a. curved	b. straight	c. zigzag	d. curved
-----------	-------------	-----------	-----------
2. ..... is a magnetic material.
 

a. Gold	b. Iron	c. Copper	d. Aluminium
---------	---------	-----------	--------------
3. An examples of decomposers is the .....
 

a. fungi.	b. rabbits.	c. plants.	d. lions.
-----------	-------------	------------	-----------
4. If you look at a yellow banana through a green glass sheet it seems .....
 

a. yellow.	b. green.	c. black.	d. red.
------------	-----------	-----------	---------

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PART

**3****[B] Give reasons for :**

1. The pen appears broken when put it in a cup of water.
  
2. Air is a mixture.

**3. [A] Write the scientific term :**

1. Any natural area contains living organisms and non-living things. ( ..... )
2. The main source of light on the Earth. ( ..... )
3. A device used to locate the four main geographical directions. ( ..... )
4. The darkened area formed as a result of falling light on an opaque object. ( ..... )
  
5. A phenomena where living organisms can change its colour to hide from its enemies. ( ..... )

**[B] Mention one use of :**

1. The electromagnet :
  
2. Glass prism :

**4. [A] What happens when ... ?**

1. If there are no predators.
  
2. The light when it falls on a smooth bright surface.

**[B] Correct the underlined words :**

1. Solubility speed decrease by rising the temperature. ( ..... )
2. Ascaris worms are external parasites. ( ..... )
3. Insectivorous plants cannot make fats. ( ..... )
4. Alcohol is called a common solvent. ( ..... )

**10****Giza Governorate****Dar El-Hanan Language Schools****Answer the following questions :****1. [A] Complete the following sentences :**

1. As the light falls on the green grass, the grass must absorb ..... colours except .....

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2. .... is considered as a common solvent due to its ability to dissolve several substances.  
 3. Green plants are ..... organisms.

**[B] Name the equipment that can be used in this case :**

Converting of mechanical energy into electric energy.

**2. [A] Put (✓) or (✗) and correct the wrong one :**

1. Yellow, magenta and cyan are primary light colours. ( )
2. Light transmits in straight lines. ( )
3. The oil and water can be separated by filtration. ( )
4. Fungi feeding on the dead organisms bodies is called saprophyte. ( )

**[B] Give reasons for :**

1. The moon can't be considered as a source of light.
2. Air is a mixture.

**3. [A] How can you separate the following mixtures ?**

1. Sand solution.
2. Paper clips and flour.
3. Salty solution.
4. Water containing mud.

**[B] Write one difference between the following :**

The magnetic and non-magnetic materials.

**4. [A] Write the scientific term :**

1. A temporary relationship between two different organisms with a benefit to one and harm to the other. ( ..... )
2. Darkened area formed behind an object once light falls on it. ( ..... )

**3**

3. A tool that is used for locating the main four geographic directions. (.....)

4. The material at which the solute disappear in it. (.....)

**[B] What happens if ... ?**

1. When you look at a spoon put in a beaker contains water.

2. Cutting down of trees.

**11****Alexandria Governorate****East Alex. Educational Zone****Answer the following questions :****1. [A] Complete the following sentences :**

1. Like magnetic poles ..... each other, while unlike magnetic poles ..... each other.
2. ..... and ..... are ways of self-defense against predation.
3. Light cannot pass through ..... materials.
4. ..... substance consists of one type of identical particles.

**[B] Correct the underlined words :**

1. Light travels in curved lines. (.....)
2. The magnet has three poles. (.....)
3. Bread mold fungus is a predator. (.....)

**2. [A] Write the scientific term for each of the following :**

1. The living organisms that clean the Earth's surface from dead bodies. (.....)
2. A device which is used to change magnetic energy into electric energy. (.....)
3. The objects that absorbs all light colours that fall on them. (.....)
4. The common solvent that has the ability to dissolve several substances. (.....)

**[B] What happens when ... ?**

1. Passing of electric current in a coil around a rod of soft iron.
2. Heating salty water for a long time.

**3.** [A] Choose the correct answer :



**[B] Mention the kind of food relationship for each the following :**

1. Nodular bacteria and bean plant.
  - .....
  2. Sponge and tiny aquatic living organisms.

**4. [A] Cross the odd word out :**

1. Distilled water - Mineral water - Vegetable salad - Fruit salad. ( ..... )  
2. Wood - Plastic - Iron - Glass. ( ..... )  
3. Air - Clear water - Frosted glass - Glass. ( ..... )

**[B] Give reasons for :**

Compass is used in planes.

**[C]** Mention the way of separating the following mixtures :

1. Oil and water.

12

## Alexandria Governorate

El-Gomrok Educational Zone

**Answer the following questions :**

**1. [A] Choose the correct answer :**

1. The substance in which solids dissolve is called .....  
a. solubility process. b. solvent. c. solute. d. sugar.

PART  
B

3

2. We can see objects due to ..... of light on them.

  - a. reflection
  - b. refraction
  - c. shadow
  - d. spectrum colours

3. A scientist who discovered that the magnetic energy can be changed into electrical energy .....

  - a. Newton.
  - b. Faraday.
  - c. William Gelbert.
  - d. Hasan ibn al-hatham.

4. An ..... is any nature area including living organisms and non-living things.

  - a. ecosystem
  - b. artificial
  - c. saprophytes
  - d. (a), (b) and (c)

**[B] Mention one use of :**

1. Glass prism.

---

  2. Separating funnel.

**2. [A] Complete the following statements :**

1. .... Is considered a common solvent.
  2. Increasing ..... reduces the solubility time.
  3. The food relationship in which one living organism devours another one is known as .....
  4. The like poles ..... each other, whereas the unlike poles ..... each other.

**[B] Give reasons for :**

1. Some materials are called magnetic materials.

**3. [A] Write the scientific term :**

1. A set is used for locating the main four geographical directions. ( ..... )
  2. The phenomena in which a living organism can change its colour to hid from its enemies. ( ..... )
  3. The substance that consists of more than one type of identical particles. ( ..... )

[B] Choose from column (B) what is suitable it from column (A) :

(A)	(B)
1. Saprophytism	a. the relationship between man and worms.
2. Mutualism	b. a relationship between fungi and food remains.
3. Parasitism	c. the relationship between the nodular bacteria and legumes plant.

1. .... 2. .... 3. ....

4. [A] Correct the underlined words :

1. Sand and water mixtures can be separated by magnetic attraction. ( ..... )
2. The electromagnet changes electric energy into heat energy. ( ..... )
3. Mosquito conveys plugs disease to man. ( ..... )
4. red, green and blue are called secondary colours. ( ..... )

[B] What happens when :

1. On mixing the red colour with the green colour.
2. Bacteria disappear completely.

13

Alexandria Governorate

South Alex. Educational Zone

Answer the following questions :

1. [A] Correct the underlined words :

1. Concrete and tomato sauce are considered a pure substance. ( ..... )
2. Ascaris worms are external parasites. ( ..... )
3. Light travel in curved lines. ( ..... )
4. Alcohol is called a common solvent. ( ..... )
5. By increasing the temperature the time taken to dissolve solute increases. ( ..... )
6. A magnet has three poles. ( ..... )

[B] What happens when ... ?

1. A magnet is hanged freely to move.
2. Approaching a magnet to mixture of sand and steel paper clips.
3. Looking at red apple through green glass sheet.

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PART

**3****2. [A] Classify :**

Copper – Nickel – Chalk pieces – Aluminium – Paper clips – Iron

Magnetic materials	Non-magnetic materials
.....	.....
.....	.....
.....	.....
.....	.....
.....	.....

**[B] Give reasons for :**

1. Sugar is a pure substance.
- .....

2. Spoon appears broken in transparent cup filled with water.
- .....

.....

**3. [A] Write scientific term :**

1. The plants that devours tiny insects. ( .....
2. A set used to identify the main four directions. ( .....
3. A form of energy which can be seen. ( .....
4. It is the substance that dissolves in solvent. ( .....
5. Any natural area including living organisms and non-living things. ( .....
6. Darkened area formed behind an object once light falls on it. ( .....

**[B] Choose from column (A) what is suitable with column (B) :**

(A)	(B)
1. The relation between a cat and a rat is	a. causes elephantiasis disease.
2. A food relationship between two organisms benefit from each other	b. mutualism.
3. Falaria worm	c. predation.

1. ....

2. ....

3. ....

**4. [A] Complete the following sentences :**

1. Like magnetic poles ..... each other, while the dislike magnetic poles .....
2. You can separate a mixture of oil and water by .....
3. From primary light , , ,

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**[B] Choose the correct answer :**

1. Mosquito conveys ..... disease to man.  
a. plague                            b. malaria                            c. elephantiasis

2. To separate salt from salty water we use .....  
a. filter paper.                      b. a separating funnel.  
c. the evaporation process.

3. The natural magnet is one of the ..... ores.  
a. copper                            b. carbon                            c. iron

4. Green plants are considered ..... organisms.  
a. decomposer                      b. producer                            c. parasite

5. Chameleon tends to make .....  
a. mimicry.                         b. camouflage.                            c. symbiosis.

6. Filtration is used to separate ..... mixture.  
a. salt and surge                    b. iron filings and sand                    c. sand and water

**14 El-Qalyoubia Governorate**

Science Inspectorate

**Answer the following questions :**

**1. [A] Complete the following sentences :**

1. The spectrum colours start with ..... and end with .....
  2. By increase the quantity of solvent the solubility time .....
  3. The idea of electric generator is change ..... energy into ..... energy
  4. The relationship between sponge and tiny aquatic living organisms is .....
  5. Sand-water mixture can be separated by .....
  6. ..... worm causes elephantiasis disease.

**[B] Choose the correct answer :**

1. Predation ..... the number of prays in the ecosystem.

a. Increases                          b. decreases                          c. organizes

2. ..... is used to located the main four directions.

a. Compass                          b. Dynamo                          c. Prism

3. The blue t-shirt seems ..... behind red glass sheet.

a. blue                                  b. red                                  c. black

4. The common solvent is .....

a. alcohol.                                  b. water.                                  c. benzene.

PART

**3****2. [A] Give reasons for :**

1. The image through narrow holes is inverted and minimized.
  
2. Predation is temporary food relationship.
  
3. Mineral water is a mixture but sugar is pure substance.
  
4. Yellow is called secondary coloured light.

**[B] Correct the underlined words :**

1. Newton is the scientist who discovered dynamo. ( ..... )
2. Ascaris-worm is external parasite. ( ..... )
3. Aluminifum is a magnetic material. ( ..... )
4. Salt and water are mixed by grinding. ( ..... )

**3. [A] Write the scientific term :**

1. A darkened area formed when light falls on opaque object. ( ..... )
2. Any natural area contains living organisms and non-living things. ( ..... )
3. The food relationship between nodular bacteria and leguminous. ( ..... )
4. A set used to change electric energy into magnetic energy. ( ..... )

**[B] Put (✓) or (✗) :**

1. Insect-eaters plants prey insects to prepare fats. ( )
2. Mixing red, green and blue produce white light. ( )
3. Air is transparent material. ( )
4. The formed image in the mirror due to light refraction. ( )

**4. [A] What happens when ... ?**

1. Hanging a bar magnet to move freely.

.....  
.....

2. Bacteria disappear from environment.

.....  
.....

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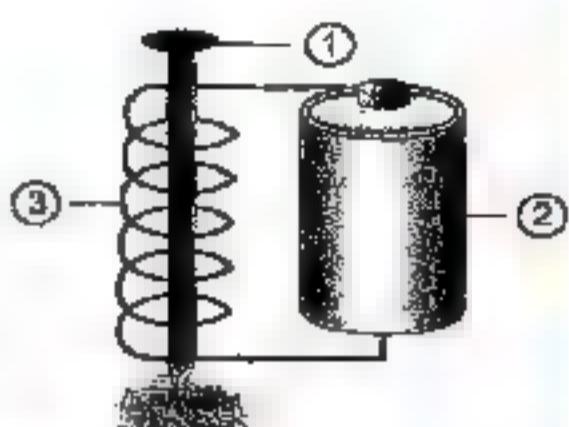


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[B] Look at the opposite figure then answer :

1. The figure represent .....
2. Label the figure :

- ① .....
- ② .....
- ③ .....



[C] Choose from column (B), what is suitable it from column (A) :

(A)	(B)
1. Bread mold fungi	a. mixtures
2. Salt and sugary solutions	b. appear after rains
3. Tissue paper	c. translucent
4. rainbow	d. saprophytes

1. .... 2. .... 3. .... 4. ....

15

El-Gharbia Governorate

Gharbia Educational Directorate

Answer the following questions :

1. [A] Complete the following sentences :

1. Yellow, ..... and ..... are known as "secondary light colours".
2. Like poles ..... each other, whereas unlike poles ..... each other.
3. It is possible to separate iron filings from the mixture by using ..... while ..... is used to separate salt from sea water.
4. Mosquito is an ..... parasite, while ascaris worm is an ..... parasite.

[B] Compare between each of the following :

1. Magnetic materials and non-magnetic materials. (According to definition)

.....  
.....

2. Pure substances and mixtures. (According to their structure)

.....  
.....

2. [A] Choose the correct answer :

1. Red light + Green light + Blue light = .....
  - a. Yellow.
  - b. Magenta.
  - c. White.
2. A tool that is used for locating the four main directions .....
  - a. dynamo.
  - b. compass.
  - c. electric lamps.

3

3. Increasing temperature ..... solubility time.

a. increase                      b. decreases                      c. does not effect

4. An example of decomposers is the .....

a. fungi.                      b. rabbits.                      c. plants.

### [B] What happens when ... ?

1. You look at a red apple through a green transparent glass sheet.
  2. Bacteria disappeared completely.

**3.** [A] Write the scientific term :

1. The seven colours which the white light is made up of. ( ..... )

2. One of the iron ores which is known as magnetite. ( ..... )

3. It is the substance in which the solute disappears. ( ..... )

4. It is the food relationship among living organisms in which one living organism devours another one. ( ..... )

**[B] Give reasons for :**

1. The pencil placed inside a glass of water seems as if it was broken at the water's surface ?

**Water is a common solvent.**

**4.** [A] Put (✓) at the front of the right statement and (✗) at the front of the wrong one :

1. Object's image is formed because light travels in curved lines. ( )

2. When the white light strikes a red rose, it reflects the white colour. ( )

3. A separating funnel is used to separate immiscible liquid mixtures. ( )

4. Green plants are considered as consumer organisms. ( )

**[B] Choose one of the following terms to form a proper food chain :**

(Snake – Wheat – Sheep)

1. The producer in the chain is ..... .
  2. The predator in the chain is ..... .
  3. The herbivore in the chain is ..... .
  4. The relationship between a snake and a rat is known as a ..... .

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Dakahlia Governorate

Science Inspectorate

**Answer the following questions :****1. [A] Choose the correct answer :**

1. Mixing green light with red light produces ..... light.  
a. cyan      b. yellow      c. magenta      d. blue
2. ..... is a common solvent.  
a. Water      b. Alcohol      c. Mercury      d. Benzene
3. Black opaque object ..... all light colours.  
a. absorbs      b. reflects  
c. transmits      d. all the previous
4. ..... is attracted to the magnet.  
a. Chalk      b. Glass      c. Cobalt      d. Aluminium
5. When you look at a red apple from a yellow glass sheet, the apple seems .....  
a. red.      b. blue.      c. black.      d. yellow.
6. The solute in chocolate-milk solution is .....  
a. milk.      b. chocolate.      c. water.      d. all the previous.

**[B] Give reasons for :**

1. Formation of shadow when light falls on an opaque body.
- .....  
.....

2. Mineral water is considered as a mixture.
- .....  
.....

3. We see a picture behind the glass clearly.
- .....  
.....

**2. [A] Complete the following sentences :**

1. ..... is any ..... area including living and nonliving organisms.
2. When light passes from water to air it ..... because light speed through air is ..... than that through water.
3. Electromagnet changes ..... energy to ..... energy.
4. The substances can be divided into ..... and ..... due to their magnetic ability.

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**3**

**[B] Show how can separate the following ?**

1. Salt from salty solution. ( ..... )
2. Chalk powder from water. ( ..... )
3. Oil from oil-water mixture. ( ..... )
4. Steel paper clips and flour. ( ..... )

**3. [A] Correct the underlined words :**

1. Natural magnet is one of the copper ores.. ( ..... )
2. The green colour is between yellow and indigo in rainbow. ( ..... )
3. Very large ecosystem as desert. ( ..... )
4. Camouflage helps in keeping the environment balance. ( ..... )
5. Yellow light is a primary colour. ( ..... )
6. The motor is used in making electric bell. ( ..... )

**[B] Write the scientific term :**

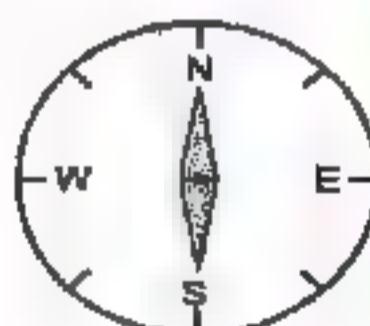
1. The region of the magnet where the magnetic force is the most powerful. ( ..... )
2. A mixture in which solute disappeared in the solvent. ( ..... )
3. The light energy that can be seen. ( ..... )
4. The type of material which appears with the reflected colour. ( ..... )
5. An insectivorous plant. ( ..... )
6. The organism that feeds on decomposing the moist wet bread. ( ..... )

**4. [A] Mention the kind of relation between each of the following :**

1. Lion and deer. ( ..... )
2. Bread mold fungus and moist bread. ( ..... )
3. Nodular bacteria and bean plant. ( ..... )
4. Mosquitoes and man. ( ..... )

**[B] Look at the opposite figure then answer the following :**

1. The opposite figure represents ..... .
2. The device consists of ..... can spin freely around a fixed axis.
3. It is used to ..... .



## [C] What happen when ... ?

1. When you look at a spoon placed in glass contains water.

2. When a man infected by filaria worm.

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Ismailia Governorate

Science Inspectorate

Answer the following questions :

## 1. [A] Complete the following sentences :

1. White light consists of ..... colours, which are called ..... colours.
2. Solid materials can be mixed by ..... or .....
3. The ..... magnet is black stone made of iron ores which called .....
4. The like poles ..... each other, whereas the ..... poles attract each poles.

## [B] Choose from column (B) what is suitable it in column (A) :

(A)	(B)
1. Sugar	a. causes malaria disease.
2. Air	b. get by mixing two primary colours.
3. Mushroom fungus	c. is a mixture.
4. Secondary light colours	d. is from saprophytes.
	e. is a pure substance.

1. ....

2. ....

3. ....

4. ....

## 2. [A] Give reasons for :

1. When light fall on a white paper, it appears white colour.

2. The formation of image through narrow holes.

3. It is preferable to increase the number of coil turns in the electromagnet.

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## 3

[B] Write the scientific term :

1. The phenomenon formed in the sky after rain and sun still shining. ( ..... )
2. The substance which dissolves in a solvent. ( ..... )
3. The food relationship between two living organisms that benefit from each other ( ..... )
4. The materials that are attracted to the magnet. ( ..... )
5. It is the internal parasite which causes bilharzia disease. ( ..... )
6. Darkened area that formed as a result of falling light on an opaque object. ( ..... )

**3.** [A] Mention an example for each of the following :

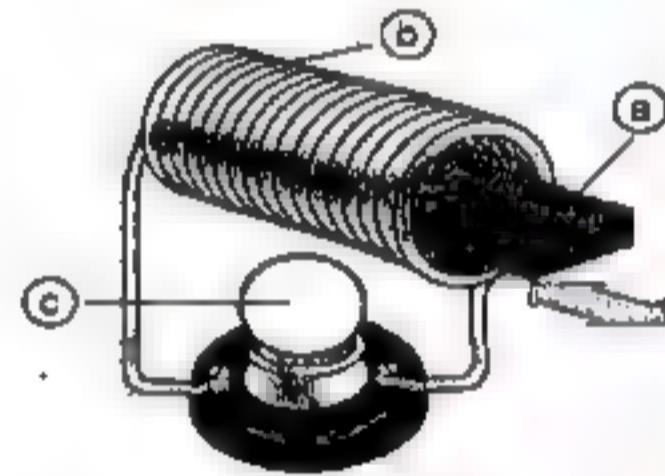
1. A natural source of light. ( ..... )
2. A common solvent. ( ..... )
3. Insectivorous plants. ( ..... )
4. Large ecosystem. ( ..... )

[B] Look at the opposite figure then answer :

1. The name of the device is .....

2. Label this diagram

- (a) .....
- (b) .....
- (c) .....



**4.** [A] Identify the ways of mixtures separation by put (✓) in front of suitable way :

Mixtures	Magnetic attraction	Filtration	Separating funnel	Evaporation
1. Oil and water	.....	.....	.....	.....
2. Sugar and water	.....	.....	.....	.....
3. Iron filling and sand	.....	.....	.....	.....
4. Sand and water	.....	.....	.....	.....

[B] What happened when ... ?

1. You look at a red apple through a green glass sheet.  
.....
2. Hanging a magnet and allow it to move freely.  
.....

三

## **Port Said Governorate**

Science Inspectorate

*Answer the following questions :*

### **1. Complete the following sentences :**

1. The material in which light can transmit through is called .....
  2. Like poles ..... whereas dislike poles .....
  3. The food relationship between cat and rat is .....
  4. .... is a common solvent due to its ability to dissolve several substance.
  5. Red light + Green light + Blue light = .....

**2. [A] Choose the correct answer :**

1. Light transmits in ..... lines.  
a. curved                    b. broken                    c. straight

2. The material that dissolves to produce solution is called .....  
a. solvent.                    b. solute.                    c. mixture.

3. The natural magnet is discovered since ..... ago.  
a. 2000                    b. 3500                    c. 2050

4. ..... takes place by some living organisms to hide from their enemies.  
a. Commensalism                    b. Parasitism                    c. Camouflage

**[B] Choose from the column (A) what is suitable it from column (B) :**

(A)	(B)
1. A mosquito	a. causes elephantiasis.
2. Flaria worm	b. conveys plague.
3. Bread mold fungus	c. causes malaria.
4. Fleas	d. causes bread mold.

### **3. [A] Write the scientific term :-**

1. Darkened area formed behind an object once light falls on it. ( ..... )  
2. Natural area including living organisms and non-living things. ( ..... )  
3. A device used to convert kinetic energy into electric energy. ( ..... )

**[B] Correct the underlined words :**

1. When white light strikes a red rose, it reflects the white colour. ( ..... )  
2. Increasing solvent amount, decreases the speed of solubility. ( ..... )  
3. Salt and water are mixed together by stirring or grinding. ( ..... )

PART

**3****4. [A] Give reasons for :**

Some materials are magnetic.

**[B] What happens when ... ?**

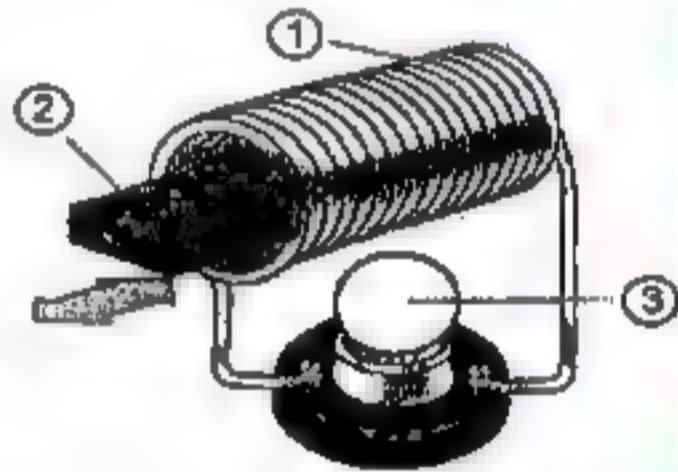
On mixing the red coloured light with the green coloured light.

**[C] Identify the ways of mixtures separation by put (✓) in front of suitable way :**

The mixture	Magnetic attraction	Filtration	Evaporation	Separation funnel
1. Iron filings and sand	.....	.....	.....	.....
2. Sand and water	.....	.....	.....	.....
3. Oil and water	.....	.....	.....	.....
4. Salt and water	.....	.....	.....	.....

**[D] Study the following figure then complete :**

- ① .....
- ② .....
- ③ .....

**19****Damietta Governorate**

Science Inspectorate

**Answer the following questions :****1. [A] Complete the following sentences :**

1. The material in which light can transmit through is called .....
2. Fungi are considered as ..... living organisms.
3. Increasing ..... reduces solubility time..
4. Like poles ..... each other.

**[B] What is meant by each of the following ... ?**

1. Ecosystem.
2. Shadow.

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**2. [A] Choose the correct answer :**



**[B] Give reasons for :**

- ### 1. We wear black clothes in winter.

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2. Aluminium and copper are considered as non-magnetic materials.

**3. [A] Write the scientific term :**

1. A tool used to locate the main four directions. ( ..... )

2. A process used to separate salt from water. ( ..... )

3. A temporary relationship between two different organisms with  
a benefit to one and harm to the other. ( ..... )

4. Is a mixture of gases such as oxygen, nitrogen and carbon dioxide. ( ..... )

**[B] Mention one use for each of the following :**

1. Glass prism .....
  2. Electromagnet .....

**4. [A] Correct the underlined words in each of the following statements :**

1. Separating funnel is used to separate the **solid-liquid mixture**. ( ..... )

2. Natural magnet is a **red** rock. ( ..... )

3. Red light + Green light = **Cyan** light. ( ..... )

4. **Mimicry** is a phenomenon in which the living organism protects itself from enemies by changing its colour. ( ..... )

[B] What do you expect to happen in the following case ... ?

1. Seven spectrum colours are mixed together.
- .....
2. Adding an insoluble substance to a certain solvent.
- .....

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Fayoum Governorate

Science supervision for governmental language school

**Answer the following questions :**

**1. Complete the following :**

1. Mixing a small amount of mud with water forming ..... solution that can be separated by .....
2. Like poles ..... whereas dislike poles .....
3. The material in which light can transmit through is called .....
4. ..... is considered to be a general solvent because of its ability of dissolving most materials

**2. Correct the underlined words in each of the following statements :**

1. Solubility speed decreases by shaking and rising the temperature. ( ..... )
2. Parasites get their food by decomposing food remains or dead bodies. ( ..... )
3. The formation of shadow due to traveling light in curved lines. ( ..... )
4. Copper is attracted to the magnet. ( ..... )
5. When light passes from air to glass, it reflects. ( ..... )
6. Frog hides from its enemies by mimicry. ( ..... )

**3. Choose the correct answer :**

1. The dynamo generates ..... energy from mechanical energy.  
a. thermal      b. electrical      c. light      d. kinetic
2. When a magnet is hanged freely, its north pole refers towards the .....  
a. north.      b. south.      c. east.      d. west.
3. In food relationship between a man and a bilharzias worm, the man is a .....  
a. predator.      b. prey.      c. host.      d. parasite.
4. The process of photosynthesis is done by a ..... living organism.  
a. producer      b. decomposer      c. consumer      d. all the previous

5. .... is used to separate a mixture of oil and water.

  - a. Evaporation
  - b. Filtration
  - c. Separating funnel
  - d. Magnetic attraction

6. Red, green and blue light are ..... lights.

  - a. primary
  - b. secondary
  - c. complementary
  - d. mix

**4. [A]** Write the scientific term for each of the following statements :

1. The liquid mixture which is composed of a solute and a solvent. ( ..... )
  2. The natural area including living organisms and non-living organisms. ( ..... )
  3. The materials that don't get attracted to the magnet. ( ..... )
  4. The seven colours of light which sunlight (white light) is made up of. ( ..... )

**[B] Give reasons for :**

1. A magnet can be used to separate iron fillings from sand.
  - .....
  2. We prefer to wear black clothes in winter.

**21 El-Minia Governorate**

## **St. Mark and El-Tawfik Schools**

**Answer the following questions :**

**1. Choose the correct answer :-**

1. .... materials don't allow light to travel through.

  - a. Transparent
  - b. Translucent
  - c. Semi-transparent
  - d. Opaque

2. An orange appears ..... when you look at it through a blue transparent glass sheet.

  - a. red
  - b. yellow
  - c. green
  - d. black

3. The space around a magnet in which the magnetic force appears is called .....

  - a. magnetic pole.
  - b. magnetic substance.
  - c. non magnetic substance.
  - d. magnetic field.

4. The coil of a dynamo is made up of ..... wire.

  - a. carbon
  - b. copper
  - c. plastic
  - d. graphite

PART

3

5. All these factors affects solubility process except .....

  - a. temperature.
  - b. colour of solvent.
  - c. stirring.
  - d. type of solute.

6. Predation relationship ..... the number of preys in populations.

  - a. increases
  - b. organizes
  - c. decreases
  - d. prevents

**2. [A] Write the scientific term :**

1. A darkened area formed when light falls on an opaque object. ( ..... )
  2. The light that we can get by mixing two of the primary coloured lights. ( ..... )
  3. A set that is used for locating the main four geographic directions. ( ..... )
  4. A set that is used to change mechanical energy into electric energy. ( ..... )
  5. The temporary food relationship that ends by devouring the prey or part of it. ( ..... )

**[B] Give reasons for the following :**

1. Copper is a non-magnetic substance.
  - .....
  2. The formation of images through narrow

**3. [A] Complete the following sentences :**

- When a light ray passes from a glass rod to air, it .....
  - Red light + Green light + Blue light = .....
  - The like poles ..... each other, whereas the dislike poles ..... each other.
  - The basic idea of working of the electromagnet is the changing of energy into ..... energy.
  - In salty solution, salt is the ..... while water is the .....

**[B] Choose from column (A) what is suitable it from column (B) :**

(A)	(B)
1. Food relation between sponge and tiny aquatic living organisms	a. predation.
2. Food relation between man and liver worm	b. mutualism.
3. Food relation between plant and nodular bacteria	c. internal parasitism.
4. Food relation between a cat and a rat	d. commensalism.

**4. [A] Put (✓) or (✗) then correct the wrong ones :**

1. The formed image through narrow holes is inverted. ( )
2. An object seems white as it reflects all light colours. ( )
3. Distilled water is a mixture, while mineral water is a pure substance. ( )
4. Mosquitoes infect man with elephantiasis. ( )

**[B] Show how you can separate the following :**

1. Iron filings from sand.
2. Salt from salty water.
3. Oil from oil – water mixture.
4. Sand from water – sand mixture.

22

Assiut Governorate

Science Inspectorate

**Answer the following questions :****1. [A] Complete the following sentences :**

(predation – poles – solution – repel – attract)

1. Solute + solvent +  $\xrightarrow[\text{process}]{\text{dissolving}}$  .....
2. Like poles ..... wheares unlike poles .....
3. The magnetic force is most powerful at the .....
4. The interaction between a cat and a rat is considered as an example of ..... relationship.

**[B] Define the following by using the following sentences :**

(It is a natural area that contains living organisms, non-living things and the components of air including gases), It means the balance among the components of the ecosystem.

1. The ecosystem.
2. Environmental balance.

**2. [A] Write the scientific term :**

1. The materials that get attracted to the magnet. ( ..... )
2. Yellow, magenta and cyan colours. ( ..... )

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3. The seven colours of light which sunlight is made up of. ( ..... )

4. A tool that is used for locating the four main direction. ( ..... )

**[B] Give reasons for :**

1. Tape worm is a parasite.

---

  2. An apple appears red when sunlight falls on it.

**3. [A] Put (✓) or (✗):**

1. Solubility decreases by shaking and rising the temperature. ( )

2. Aluminium gets attracted to the magnet. ( )

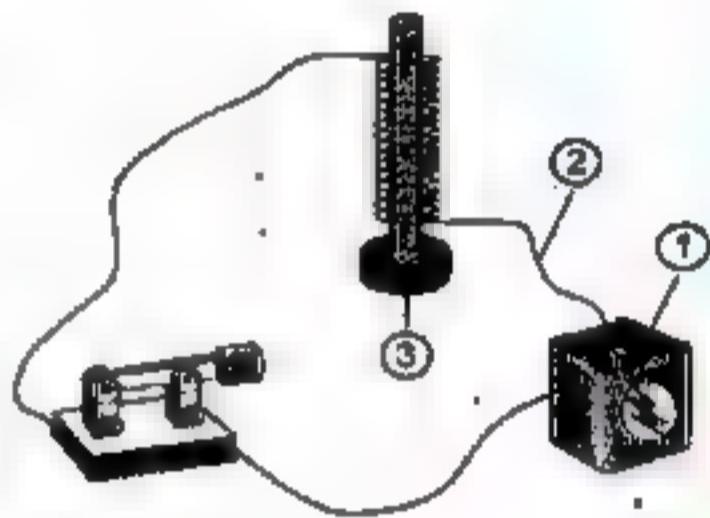
3. Object's shadow is formed because the light travels in curved lines. ( )

4. Fruit salad is considered a mixture. ( )

**[B]** Look at the opposite figure, then answer :

- The figure represents ..... - - - - -
  - Label the figure

- ① .....
- ② .....
- ③ .....



**4. [A] Choose the correct answer :**

1. The coil of a dynamo is made up of .....  
a. copper.      b. carbon.      c. iron.
  2. Light can easily transmit through ..... materials.  
a. transparent      b. semi-transparent      c. opaque
  3. When a magnet is hanged freely it will take the direction .....  
a. north and east.      b. north and south.      c. east and west.

**[B] How can the following mixtures be separated ?**

1. Water and oil solution.
  2. Sand solution.
  3. Sand and iron filings.

23

Aswan Governorate

New Aswan District Official Language School

**Answer the following questions :****1. [A] Complete the following sentences :**

1. Like poles ..... each other.
2. Light travels in ..... line.
3. The prism separates sunlight into .....
4. The relationship between a scaris worm and a man is known as .....

**[B] Give reasons for :**

1. The banana appears yellow when sunlight falls on it.
2. Predation is temporary relationship.

**2. [A] Choose the correct answer :**

1. A materials that light cannot transmit through are .....
 

a. transparent.	b. semi-transparent.	c. opaque.
-----------------	----------------------	------------
2. The coil of a dynamo is made up of ..... wire.
 

a. copper	b. carbon	c. iron
-----------	-----------	---------
3. Magenta, cyan and yellow light are ..... lights.
 

a. primary	b. secondary	c. complementary
------------	--------------	------------------
4. Uses ..... in separation of a mixture of water and oil.
 

a. evaporation	b. filtration	c. separating funnel
----------------	---------------	----------------------

**[B] Mention the function each of :**

1. The dynamo.
2. Compass.

**3. [A] Put (✓) or (✗) :**

1. Light is a form of energy. ( )
2. Aluminium gets attracted to the magnet. ( )
3. Red + Green + Blue = White. ( )
4. Spiders use their woven nets for catching insects. ( )

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**3**

[B] Complete the table :

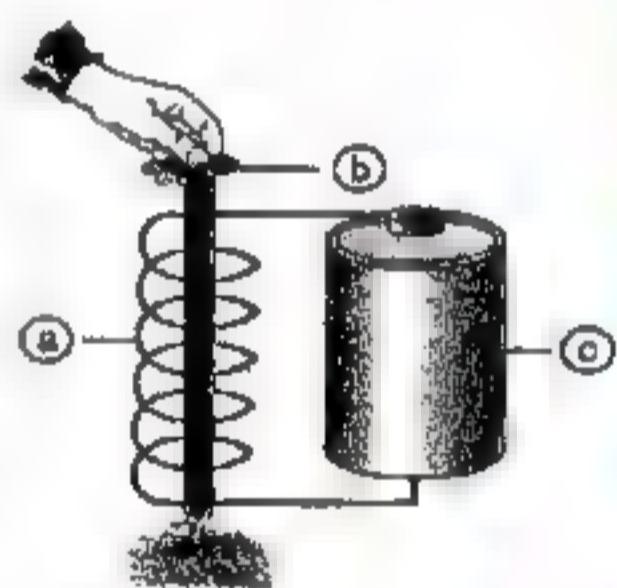
Point of comparisons	Camouflage	Mimicry
Example	..... ① .....	..... ② .....
Point of comparisons	Mixture of sand and iron filings	Mixture of sand and water
Methods of separation	..... ③ .....	..... ④ .....

4. [A] Write the scientific term :

1. The darkened area formed behind an object once light falls on it. ( ..... )
2. The change of light rays directions when they transmit the separate surface between two different transparent media. ( ..... )
3. Liquid used to dissolve the solute to make a solution. ( ..... )
4. The relationship between two organisms that benefit from each other. ( ..... )

[B] Look at the opposite figure, and write the Labels :

- The name of the device .....
- Label the figure
- (a) .....
- (b) .....
- (c) .....



24

Luxor Governorate

Luxor Educational Zone

Answer the following questions :

1. [A] Complete the following sentences :

1. Bilharzia worms hurt ..... and are named ..... while the organisms it hurts are called hosts.
2. Increasing ..... reduces the solubility time.
3. Compass consists of ..... freely move.

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4. Secondary colours are ..... , ..... and .....  
5. Like poles ..... each other.

[B] Name the equipment that can be used in each case :

1. Separation of light into seven colours. ( ..... )

2. Converting of mechanical energy into electric energy. ( ..... )

---

**2. [A] What happens in each case of the following ... ?**

1. When you look at a spoon put in a beaker contains water.
  2. Cutting down of trees.
  3. On mixing the seven colours.

**[B] Correct the underlined word :**

1. The natural magnet is one of the copper ores. ( ..... )  
2. Shadow is formed because light travels in curved lines. ( ..... )  
3. Spiders uses their woven nest for catching fishes. ( ..... )

**3.** [A] Choose the correct answer :-

- Choose the correct answer.

  - Light travels in ..... lines.  
a. curved      b. zigzagged      c. straight
  - From examples of saprophytic organisms .....  
a. fungi.      b. rabbit.      c. plant.
  - The solute in the mixture of chocolate and milk is .....  
a. water.      b. milk.      c. chocolate.
  - The types of parasites are .....  
a. external.      b. internal.      c. all the previous.
  - The natural magnet is discovered since ..... ago.  
a. 2000      b. 2020      c. 2500

[B] Mention the kind of food relationship between :

1. The lion and a deer : .....
  2. Nodular bacteria and bean plant : .....

**4. [A] Give reasons for :**

1. Wood is a non-magnetic material.

PART

**3**

2. A piece of marble isn't disappearing when putting it in water.
  
3. The parasite doesn't kill its host.

**[B] Write the scientific term for each of the following :**

1. The material that get attracted to the magnet. ( ..... )
2. The light energy that can be seen. ( ..... )
3. The mixture results from the solubility of solids in liquid. ( ..... )
4. The change of light rays directions when they transmit through the separating surface between two different transparent media. ( ..... )
5. Any natural area including living organisms and non-living things. ( ..... )
6. A relation between two living organisms that benefit from each other. ( ..... )

**25****South Sinai Governorate****Tur Sinai Educational Directorate**

**Answer the following questions :**

**1. [A] Complete the following :**

(Saprophytism – iron – red – repel – mimicry – attract - copper – mutualism – camouflage – yellow)

1. From magnetic material ..... and from non-magnetic material .....
2. ..... and ..... are from the ways of self-defence against predation in living organisms.
3. From primary coloured lights ....., and from secondary coloured lights .....
4. The like magnetic poles ....., but the dislike magnetic poles .....
5. The food relationship between nodular bacteria and bean ....., whereas the food relationship between fungi and dead bodies is .....

**[B] What happens when ... ?**

1. A magnet is hung to move freely.  
.....
2. Introducing rabbits into an island with much food and no natural enemies.  
.....

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**2. [A] Write the scientific term for each of the following statements :**

1. The light that we can get by mixing two of the primary coloured light.

( ..... )

2. The temporary food relationship that end by devouring the prey or a part of it.

( ..... )

3. The regions of the magnet, where the magnetic force is most powerful.

( ..... )

4. A darkened area formed when light falls on an opaque object.

( ..... )

**[B] Choose from column (A) what is suitable it from column (B) :**

(A)	(B)
1. Glass prism	a. used to separate oil and water mixture.
2. Compass	b. change electric energy into magnetic energy.
3. Electromagnet	c. determine the main four directions.
4. Separating funnel	d. separating white light into seven spectrum colours.

1. ....

2. ....

3. ....

4. ....

**3. [A] Choose the correct answer :**

1. The relationship between sponge and tiny aquatic living organisms is .....

a. parasitism.      b. commensalism.      c. predation.

2. From the examples of liquid mixture .....

a. sand and water.      b. lemon juice and water.      c. sand and salt.

3. The result from solubility process is called .....

a. solute.      b. solvent.      c. solution.

4. Light transmits in ..... lines.

a. straight      b. curved      c. broken

5. The speed of solubility increase by .....

- a. increase the amount of solvent.
- b. increasing the amount of solute.
- c. decreasing temperature.

[B] Give reasons for :

- Saprophytic organisms give great service to ecosystem.

- The red apple seems black when you look at it through a green glass sheet.

4. [A] Put (✓) or (✗) :

- Sun is the main source of the light on the Earth. ( ..... )
- We can separate mixture of sand and water by filtration process. ( ..... )
- Tiger is an example of extinct animals due to the change in natural conditions in the environment. ( ..... )
- The electromagnet consists of copper coil only. ( ..... )
- The banana fruit seems yellow as it reflects the green light colour. ( ..... )

[B] Compare between :

P.O.C	Filaria worm	Fleas
The diseases that cause :	.....	.....

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أكتب زاكرولي في البلاط وانضم لمجموعات زاكرولي  
 هذه رياضن الاطفال لتصفح المنشآت الاعدادي



(A) 5. an electric current

6. reflects – absorbs

7. reflecting surface – air.

8. bigger

9. Solvent

10. Non-magnetic materials.

11. The compass.

(B) 1. It is used to separate the heterogeneous liquid mixtures (as water-oil mixture)

2. It is used to separate the solid-solid mixtures that contain magnetic substances.

(C) 1. Predation. 2. Saproxytism.

(D) 1. The magnetic force is the ability during raining.

2. ... is a homogeneous mixture

3. ... in straight lines.

(E) 1. C 2. e 3. b 4. a 5. d

- Q** (A) 1. To increase the produced amount of electricity.
2. Because thousands of solid materials dissolve in it.
3. Because it doesn't allow light to pass through and objects cannot be seen through it.
4. Because white clothes reflect all the light colours that fall on them causing the decrease of feeling of heat.
5. Because they can't be produced by mixing two of the other light colours.

- (B)** 1. predator. 2. c. north and south. 3. c. cyan.
- (C)** 1. Gemhawia Language School
- (D)** 1. refraction 2. b. predator 3. b. sugar 4. b. reflects 5. b. electromagnet 6. a. glass prism 7. c. opaque
- (E)** 1. Smart Vision School
- (F)** 1. a. reflection 2. b. predator 3. Light reflection. 4. Magnetic materials. 5. Ecosystem.
- (G)** 1. By evaporation process. 2. By filtration process.
- (H)** 1. They are coloured lights that are produced by mixing two of the primary coloured lights.
2. It is the substance that is made of only one type of identical particles.

- (I)** 1. c. white 2. a. decreases. 3. b. producer 4. c. north-south
- (J)** 1. reflects 2. mixtures. 3. sea water.
- (K)** 1. minimized – inverted. 2. repel – attract. 3. Fungi – bacteria 4. kinetic – electric
- (L)** 1. It is used to identify the main four geographical directions. 2. It is used in making many appliances as the electric bell, the electric mixer

**Q** 1. a producer

2. b. north

3. a. organize

4. a. iron

5. c. camouflage

6. c. Iron

7. a. Yellow

8. a. Iron

9. a. camouflage

10. a. Yellow

11. a. camouflage

12. a. transparent

13. a. blue

14. a. dynamo

15. a. predation

16. a. cobalt

**Q** 1. Sun Gate Language School

2. a. camouflage

3. a. parasite

4. a. transparent

5. a. green

6. a. yellow

7. a. pure substance

8. a. blue

9. a. iron

10. a. green

11. a. blue

12. a. transparent

13. a. red

14. a. orange

15. a. purple

16. a. pink

17. a. brown

18. a. black

19. a. white

20. a. grey

21. a. white

22. a. black

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167. a. white

(B) 1. Because it proves some insects to get its required elements for making protein.

2. Air is transparent because it allows most light to pass through and objects can be seen clearly through it, while rock is opaque because it doesn't allow light to pass through and objects cannot be seen through it.

**Q**

- (A) 1. (x) 2. (x) 3. (x) 4. (✓)

- (B) 1. d. evaporation. 2. b. cyan 3. a. faster than 4. a. aluminium.

- (C) 1. area of land = forest. 2. seven – spectrum colours. 3. winter – summer. 4. pure substance – mixture.

- Q** (A) 1. b 2. c 3. d 4. a

- (B) 1. It is used to identify the main four geographical directions.

2. It is used in making cranes (big-sized winches) to move (lift) the heavy iron blocks in factories.

Alexandria Governorate

Franciscan Sisters School

**Q**

(A)

1.

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100.

1. Dissolving of salt in 300 ml. of water is faster than that in 100 ml. of water. Because the increasing in the amount of solvent decreases the solubility time.

2. Dissolving of sugar grains in water is faster than that of sugar cubes. Because grinding of solid materials increases the speed of their solubility.

3. It is used to identify the main four geographical directions.

4. It is used to identify the main four geographical directions.

5. It is used to identify the main four geographical directions.

6. It is used to identify the main four geographical directions.

7. It is used to identify the main four geographical directions.

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23. It is used to identify the main four geographical directions.

24. It is used to identify the main four geographical directions.

3. In some bees : By mimicry. In frogs : By camouflage.

4. In frogs : By camouflage.

5. (x) .... translucent ....

6. (✓) ....

7. (x) .... increases ....

8. (x) .... (increases) ....

9. (x) .... separates ....

10. (x) ....

11. (x) ....

12. (x) ....

13. (x) ....

14. (x) ....

15. (x) ....

16. (x) ....

17. (x) ....

18. (x) ....

19. (x) ....

20. (x) ....

21. (x) ....

22. (x) ....

23. (x) ....

24. (x) ....

25. (x) ....

26. (x) ....

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28. (x) ....

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30. (x) ....

31. (x) ....

32. (x) ....

33. (x) ....

34. (x) ....

35. (x) ....

36. (x) ....

1. (A) 1. (✓)

2. (x) .... translucent ....

3. (✓)

4. (x) White ....

5. (x) .... (increases) ....

6. 1. It is separated to seven spectrum

7. colour.

8. Water evaporates leaving the salt in the cup.

9. Two poles attract each other.

10. The leguminous plants cannot get nitrogen in an inorganic form.

11. It is used to separate the heterogeneous liquid mixtures.

12. It is used to separate the heterogeneous liquid mixtures.

13. It is used to separate the heterogeneous liquid mixtures.

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23. It is used to separate the heterogeneous liquid mixtures.

24. It is used to separate the heterogeneous liquid mixtures

ذكريو

هذا العمل حصري على الانترنت فقط ولا يسمح بمتداوله على الانترنت

## 14 Taymour English School

- Q (A)** 1. irregular  
2. the magnetic force  
3. a common solvent  
4. absorbs – yellow colour – reflected.  
5. repel – attract  
6. A frog – camouflage.
- (B)** 1. It is used to separate white light (sunlight) into seven colours called spectrum colours.
- (C)** 1. It is the balance among the components of ecosystem.  
2. It is the light energy that can be seen.
- Q (A)** 1. The solubility time increases.  
2. The solubility time decreases.  
3. The solubility time increases.
- (B)** 1. speed      2. red  
3. proteins  
4. kinetic
- (A)** 1. Because vinegar and water are homogeneous mixture.  
2. Because it is used to locate the main four directions.
- (B)** 1. Ecosystem.  
2. Non-magnetic materials.  
3. Evaporation.  
4. Prediction.  
5. Shadow.
- Q (A)** 1. Absorb worn causes iron filings to move gradually until it disappears at the center of the magnet.  
2. The biggest amount of iron filings is attracted to the two poles "the ends" of magnet and this amount decreases gradually until it disappears at the center of the magnet.
- (B)** 1. a. visible spectrum.  
2. c. Tissue paper  
3. c. mutualism.
- Q (B)** Qaliubyia Governorate
- Q (A)** 1. kinetic – electric.  
2. white  
3. saline – water  
4. shaking – stirring
- (B)** 1. (x)      2. (✓)      3. (✓)

Q (A) 1. predation.      2. yellow  
3. mixtures.      4. straight

## (B)

- (B)** 1. White light is formed.  
2. The black opaque object absorbs all light colours and doesn't reflect any colour, so it appears black.

- (B)** 1. The two poles attract each other.  
2. The number of rabbits will increase, so the food resources become insufficient for rabbits that leads to competition between them, so rabbits will die.

- (C)** 1. It is the balance among the components of ecosystem.  
2. It is the light energy that can be seen.

## Q (B) El-Menoifa Governorate

- (B)** 1. Because they are attracted to the magnet.  
2. Because thousands of solid materials dissolve in it.

## (C)

- (C)** 1. Because it ends up by devouring the prey or a part of it.  
2. To increase the magnetic force of the electromagnet.

Q (B) 1. b. Iron  
3. a. secondary

## (C)

- (C)** 1. Chaser,  
3. Atmospheric air.      2. Basil,  
4. Water.

Q (B) 1. Rainbow  
3. Solubility process.

## (C)

- (C)** 1. Rainbows.  
2. Commensalism.  
3. Solubility process.      4. Magnetic field.

## Q (B) 1. It is used to separate the solid materials which are soluble in water.

## (C)

- (C)** 1. It is used in making cranes (big – sized winches) to move (lift) the heavy iron blocks in factories.  
2. It is used to identify the main four geographical directions.  
3. It is used to measure the electric current intensity.

Q (B) 1. minimized.  
3. black

## (C)

- (C)** 1. minimised.  
2. competition

Q (B) 1. The refraction of light  
2. Solubility time decreases.

## (C)

- (C)** 1. It is the reflection of light on a smooth and shiny reflecting surface, where the light rays are reflected directly in one direction.  
2. It is the reflection of light on a rough reflecting surface, where the light rays are scattered in different directions.

Q (B) 1. Reas  
3. attract

## (C)

- (C)** 1. Because it is attracted to the magnet.  
2. Because thousands of solid materials dissolve in it.

Q (B) 1. b. black  
3. c. Camouflage

## (C)

- (C)** 1. two poles – middle.  
2. living organisms – non-living things.  
3. heterogeneous – filtration process.  
4. opaque – shadow  
5. white (sunlight) – a glass prism.

	The living organisms	its type
1. Elephantiasis :	Filaria worm,	Internal parasite.
2. Small pox :	Pox	External parasite.
3. Rotten of bread :	Bread mold fungus,	Saprophyte.

Points of comparison	Regular reflection	Irregular reflection
Definition :	It is the reflection of light on a smooth and shiny reflecting surface, where the light rays are reflected directly in one direction.	It is the reflection of light on a rough reflecting surface, where the light rays are scattered in different directions.
Example :	Light reflection when it falls on any smooth surface as mirror.	Light reflection when it falls on any rough surface.

## 19 El-Dakahlia Governorate

- (A) 1. b. homogeneous 2. b. decomposer.  
3. a. sunlight. 4. c. electric
- (B) 1. Because they don't allow light to pass through, and objects cannot be seen through them.
2. Because its north pole refers to the north direction of the Earth and its south pole refers to the south direction of the Earth.
3. Because the banana fruit absorbs all light colours and reflects the yellow colour only.
4. Because thousands of solid materials dissolve in it.

Points of comparison	Transparent material	Opaque material
Definition :	It is the material which lets most light to pass through and objects can be seen clearly through it.	It is the material that doesn't allow light to pass through and objects can't be seen through it.

Examples : Air - clear water      Rocks - wood

## 20 Ismailia Governorate

- (A) 1. A disturbance in the environmental balance will take place.
2. It takes a fixed direction which is north-south direction.

- (B) Due to the refraction of light.
- (C) 1. d 2. b 3. e 4. a 5. c

- (A) 1. opaque material. 2. dynamo.  
3. white light. 4. the north pole.  
5. deceases 6. Dinosaur
- (B) 1. Separating funnel.  
2. Glass prism.

## 21 Suez Governorate

- (A) 1. mixture – pure substance.  
2. mechanical – electric.  
3. minimized – inverted.  
4. repel – attract  
5. grinding – stirring.
- (B) 1. A disturbance in the environmental balance will take place.
2. The electromagnet loses its magnetic force and iron blocks fall down.
3. The yellow banana seems black.

## 22 Port Said Governorate

- (A) 1. red + green  
2. a. filtration.  
3. d. Iron
- (C) 1. o 2. d 3. s 4. b
- (B) 1. mimicing – stirring.  
2. pass through them – reflect.  
3. living organisms – non-living things.  
4. repel – attract.

## 23 Damietta Governorate

- (A) 1. Saprophytic organisms.  
2. Secondary coloured lights.  
3. Compass.  
4. Solubility process.  
5. Mutualism.  
6. Ecosystem.
- (B)

Points of comparison	Magnetic materials	Non-magnetic materials
Definition :	They are the materials which are attracted to the magnet.	They are the materials which are not attracted to the magnet.

Examples : Iron - steel - cobalt - Chalk - glass - paper.

- (A) 1. c. sea.  
2. b. inverted minimized.  
3. a. reflection  
4. a. reflection  
5. c. predator.  
6. a. fungi.

## 24 Damietta Governorate

- (A) 1. Living organisms – non-living things.  
2. solvent – solute.  
3. commensalism – mutualism.  
4. electric – magnetic  
5. shaking – grinding.
- (B) 1. saprophytes.  
2. red.  
3. black

## 25 Damietta Governorate

- (A) 1. The compass.  
2. Dynamo.  
3. Magnetic field.  
4. Mimicry.  
5. Non-magnetic materials.

## 26 Damietta Governorate

- (B) 1. Due to refraction of light.  
2. Because it consists of more than one type of particles such as nitrogen gas, oxygen gas, carbon dioxide gas and water vapour.
- (C) 1. It takes a fixed direction which is north-south direction.
2. A disturbance in the environmental balance will take place.
- (D) 1. Because the moon light is the reflection of the sunlight that falls on its surface.

2. It is used to separate white light (sunlight) into seven spectrum colours.

2. Because it consists of more than one type of particles such as nitrogen gas, oxygen gas, carbon dioxide gas and water vapour.

- (C) 1. o 2. d 3. s 4. b

- (B) 1. mimicing – stirring.  
2. pass through them – reflect.  
3. living organisms – non-living things.

- (C) 1. c 2. d 3. s 4. f 5. e

## 27 Damietta Governorate

- (A) 1. Because it consists of more than one type of particles such as nitrogen gas, oxygen gas, carbon dioxide gas and water vapour.
- (B) 1. Due to refraction of light.  
2. Because it consists of more than one type of particles such as nitrogen gas, oxygen gas, carbon dioxide gas and water vapour.
- (C) 1. Because these plants prey some insects to get their required elements for making protein.

## 3

Part

- Q** 1. a. a homogeneous mixture  
3. d. the amount of solute  
4. b. iron.  
6. c. straight  
6. b. refraction

- Q** (A) 1. It is the balance among the components of ecosystem.  
2. It is the material which lets some light to pass through and objects can be seen through it less clearly than the transparent one.

- (B)** 1. It simulates the colour of its surrounding environment.  
2. The two poles attract each other.  
3. The white light is formed.

- (C)** 1. By evaporation process.  
2. By filtration process.  
3. By magnetic attraction method.

**24** Knif El-Sheikh Governorate

- Q** 1. primary coloured lights.  
2. repel – attract  
3. white light  
4. shaking – grinding.  
5. Solvent – Solute  
6. a. producer  
3. a. homogeneous  
5. b. Chameleon  
7. c. Separating funnel  
7. c. predator.

- Q** (A) 1. Light refraction.  
2. Shadow.  
4. Transparent materials.  
5. The compass.  
6. Mutualism.

- Q** (B) 1. Because thousands of solid materials dissolve in it.  
2. Because light travels in straight lines.

- Q** (A) 1. (x)      2. (✓)  
4. (x)      5. (✓)  
**(B)** 1. By filtration process.  
2. By magnetic attraction.

- Q** (A) 1. a. electric  
2. a. carton.  
3. c. white  
4. c. light refraction.
- (B)**

Points of comparison	Magnetic materials	Non-magnetic materials
<b>Definition :</b>	They are the materials which are attracted to the magnet.	They are the materials which are not attracted to the magnet.
<b>Examples :</b>	Iron – Steel – Nickel.	Glass – paper – wood.

- Q** (A) 1. Regular reflection.  
2. Magnetic field.  
3. Scale.  
4. Ecosystem.

- (B)** 1. Because the red apple reflects the red colour which is absorbed by the blue glass sheet, so the apple seems black.

- Q** (A) 1. The electromagnet.  
2. wrought iron nail.  
b. dry battery.  
c. copper wire.

- (B)** 1. The magnet attracts the iron nails.  
2. To protect themselves from enemies.

- Q** (A) 1. The electromagnet.  
2. mechanical – electric  
3. living organisms – non-living things.  
4. Water
- (B)** 1. Because it consists of only one type of identical particles.  
2. Due to the refraction of light.

- Q** (A) 1. The electromagnet.  
2. Light reflection.  
3. Environmental balance.  
4. Predation.

- Q** 1. c. straight  
2. c. heterogeneous mixture  
3. b. opaque  
4. a. Milk

- Q** (A) 1. The two poles.  
2. Shadow.  
3. Insectivorous – carnivore  
4. repel – attract
- (B)** 1. The Earth's surface will be covered with the bodies of dead organisms.  
2. The white light is separated into seven spectrum colours.

- (B)** 1. It is used to separate white light (sunlight) into seven colours called spectrum colour.  
2. It is used in filtration process, to separate insoluble solid materials in water.

- (A)** 1. b. north and south.  
2. a. small and inverted.  
3. c. Sepia

- (B)** 1. The magnet attracts the iron nails leaving the stand.  
2. The spoon seems broken due to the refraction of light.

- Q** (A) 1. magnet  
3. increases

- (B)** 1. Because they are not attracted to the magnet.  
2. Because it consists of more than one type of particles such as nitrogen gas, oxygen gas, carbon dioxide gas and water vapour.

- Q** (A) 1. Iron  
3. Increases

- (B)** 1. Mutualism.  
3. Internally parasitism.

- (C)** It is used in electric power stations to generate a large amount of electricity used for lighting cities and operating factories.

- Q** (A) 1. Magnetic field.  
2. Ecosystem.  
3. Light refraction.  
4. The compass.

- (B)** 1. Because it consists of more than one type of particles such as nitrogen gas, oxygen gas, carbon dioxide gas and water vapour.  
2. Because it ends up by devoured the prey or a part of it.

- Q** (A) 1. c      2. d      3. b      4. a
- (B)** 1. The Earth's surface will be covered with the bodies of dead organisms.  
2. The white light is separated into seven spectrum colours.

## Guide Answers of Final Exams

- Q** (A) 1. b. Sepia  
3. c. north.  
5. a. opaque  
6. a. bows.

- (B)**